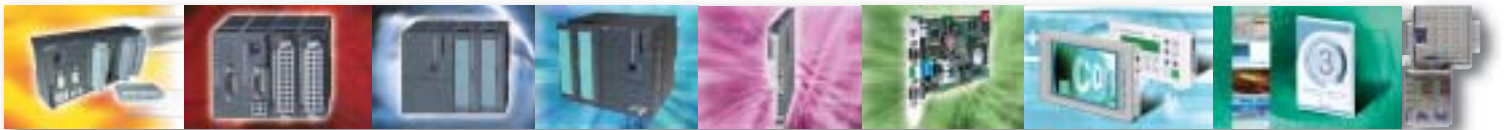




System 100V
System 200V
System 300V
System 300S
System 500S
Operator Panels
Software
Accessories



System Summary

November 2006

www.vipa.de

www.vipa.de



VIPA FACTS & MORE

VIPA company history

VIPA GmbH was founded in 1985 in Erlangen by Mr. Wolfgang Seel as a system house for automation engineering. After production of the first PC-based machine operating panel there were further developments of control and communication modules. The first customers were from the automotive and food industry, conveying engineering and machine and plant construction. VIPA has been increasingly active in the European market since 1995.

The introduction of the modular automation System 200V was the basis for creating more powerful, faster and more reliable systems. In the year 2000 the new 2000 sq.m headquarter in Herzogenaurach, west of Erlangen was opened.

The development of the SPEED7 High-Speed PLC in 2003 was a further technological milestone in the automation equipment range. In 2004, VIPA has extended the product range with the Touch Panel family.

Over 100 highly qualified employees are working for VIPA in Germany. In addition to that there are VIPA branch offices and service partners in 54 countries.



Wolfgang Seel
President



1985 - Foundation of VIPA GmbH by Mr. Wolfgang Seel

1988 - First Inrack-PC for the SIMATIC from Siemens in the world

1990 - Focusing on hardware components

1995 - First TCP/IP processors for the SIMATIC from Siemens in the world

1996 - Introduction of the first own PLC system - System 200V

1997 - Foundation of ASIC design centre

2000 - Move to new headquarter in Herzogenaurach

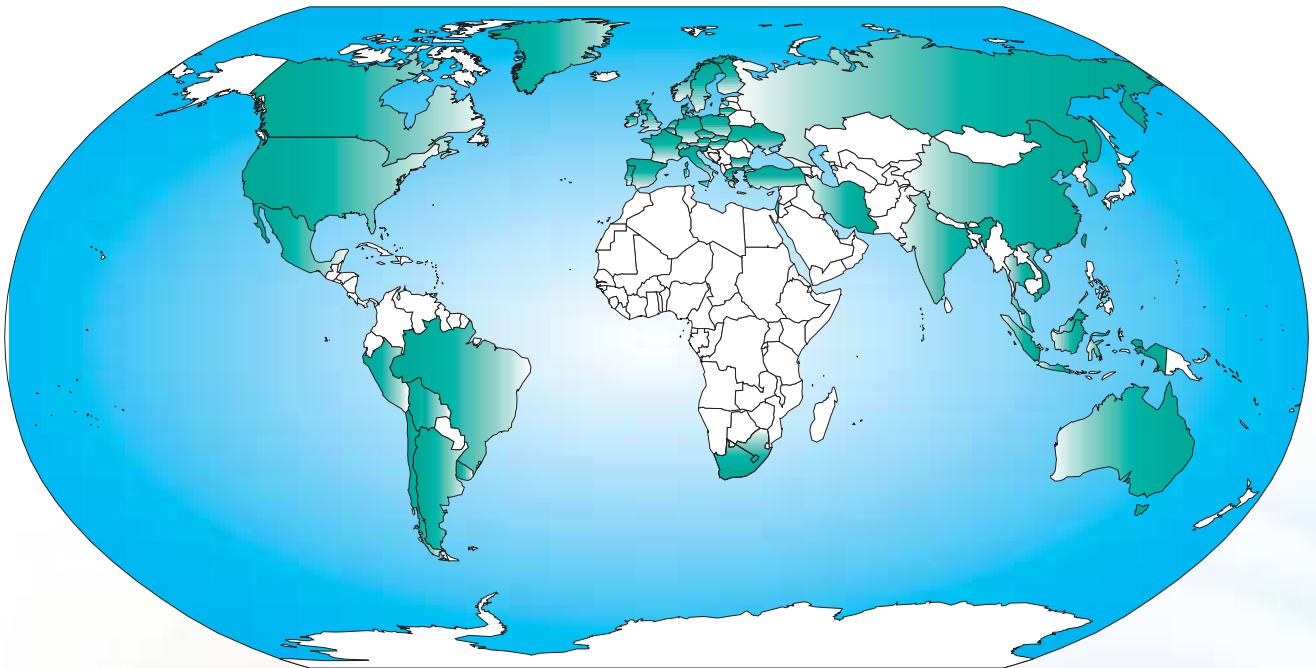
2001 - Introduction of the Micro-PLC-system - System 100V

2003 - Development of SPEED7 technology - the fastest Hard-PLC in the world

2005 - Development of VIPA Touch Panel Family

2006 - Expansion of floor space

VIPA Worldwide – Distributors



DISTRIBUTORS – EUROPE

Austria

VIPA Elektronik-Systeme GmbH
Leegasse 10
A-1140 Wien
Ph: +43-1-8959363-0
Fax: +43-1-8959363-50
Email: elektroniksysteme@psoft.at
http://www.vipa.at

Belgium

Bintz technics N.V.
Brixtonlaan 25
BE-1930 Zaventem
Ph: +32-2-720-4916
Fax: +32-2-720-3750
Email: info@bintz-technics.be
http://www.bintz-technics.be

Bulgaria

Atics Ltd. Suhata reka,
Todorini kukli Str. bl. 221,
entr. 2, ap. 35
BG-1505 Sofia
Ph: +359-2-847-6244
Fax: +359-2-847-6244
Email: office@atics-bg.com
http://www.atlcs-bg.com

Czech Republic

INVELT-ELEKTRO s.r.o.
U skolky 357/14, CZ-32600 Pilzen
Ph: +420-37-7613111
Fax: +420-37-7241014
Email: office@invelt.cz
http://www.invelt.cz

Denmark

Robotek EL & Teknik A/S
Blokken 31,
DK-3460 Birkerød
Ph: +45-4484-7360
Fax: +45-4484-4177
Email: info@robotek.dk
http://www.robotek.dk

Finland

Novotek Finland Oy
Torpankatu 28
FIN-5801 Hyvinkää
Ph: +358-19-8711-373
Fax: +358-19-8711-300
Email: info@novotek.fi
http://www.novotek.fi

France

Factory Systemes
22, rue Vladimir Jankelevitch
Emerainville 77184
F-Marne la Vallée Cedex 2
Ph: +33-1-6461-6868
Fax: +33-1-6461-6734
Email: info@factory-syst.fr
http://www.factory-syst.fr

Germany

VIPA GmbH - Headquarter
Ohmstr. 4
D-91074 Herzogenaurach
Ph: +49-9132-744-0
Fax: +49-9132-744-144
Email: info@vipa.de
http://www.vipa.de
http://www.speed7.com

Great Britain

VIPA GmbH - UK Representative Office
The Lodge
Dunthorp Road / Heythrop
GB-Oxfordshire OX7 5TL
Phone/fax: +44-1608-642651
E-mail: mark.jones@vipa.de

Greece

Technoproodos Ltd.
Constantinoupoleos 22
136-71 Acharnes
GR-Athens
Ph: +30-210-2406636
Fax: +30-210-2466288
Email: technoproodos@gmail.com

Hungary

Please contact
VIPA Elektronik-Systeme GmbH,
Austria

Ireland

Automated Components
Ireland Ltd. (ACI)
Unit 32 Hills Industrial Estate
Lucan
IE 00000 Dublin
Ph: +353 1628 2824
Fax: +353 1628 3536
Email: ddownes@auto-comp-irl.com
http://www.auto-comp-irl.com

Ireland

Engineering Automation Solutions
Portland House, Garryspillane
Kilmallock
IE 00000 Limerick
Ph: +353 412 9839
Fax: +353 62 53854
Email: info@engineeringautomation.ie
http://www.engineeringautomation.ie

Italy

VIPA Italia S.r.l.
Via Lorenzo Bernini 4
I-25010 San Zeno Naviglio BS
Ph: +39-030-2106 959
Fax: +39-030-2106 742
Email: info@vipaitalia.it
http://www.vipaitalia.it

Latvia

EMT SIA
Jelgavas iela 44/46
LV-1004 Riga
Ph.: +37 17 60 20 27
Fax: +37 17 60 20 28
Email: dzintars@emt.lv

Lithuania

Elinta UAB
Pramones ave. 16E
LT-51187 Kaunas 31
Ph: +370-37-351987
Fax: +370-37-452780
Email: info@elinta.lt
http://www.elinta.lt

Luxembourg

Please contact
Bintz technics N.V., Belgium

Netherlands

Vipa Nederland B.V.
Postbus 824
NL- 7301 BB Apeldoorn
Ph: +31-55-3564208
Fax: +31-55-3564209
Email: info@vipa-nederland.nl
http://www.vipa-nederland.nl

Poland

SDS s.c.
A. Szkodam I.Poplawska
ul. Ostrowskiego 30
PL-53238 Wroclaw
Ph: +48-71-339-0441
Fax: +48-71-339-0488
Email: biuro@sds-automatyka.pl
http://www.sds-automatyka.pl

Portugal

PROSISTAV Projectos e sistemas
de Automacao, LDA
Rua Joao Maria Calisto, 25-Loja
PT-3830-202 Ilhavo
Ph: +351-234-181 150
Fax: +351-234-181-159
Email: prosistav.lida@netvisao.pt

Romania

Assembla Engineering SRL
Bld Saturn, nr. 9, bl. 9
sc. A, apt. 3
RO-500338 Brasov
Ph: +40-268524459
Fax: +40-268524459
Email: info@assembla.ro
http://www.assembla.ro

Russia

Prosoft Ltd.
108 Profsouznaya Str.
RU-Moscow 117 437
Ph: +7-495-234-0636
Fax: +7-495-234-0640
Email: info@prosoft.ru
http://www.prosoft.ru

Slovakia

ControlSystem s.r.o.
Nábrezie Dukelských hrdinov 3
SK-97701 Brezno
Ph: +421-48-6115900
Fax: +421-48-6111891
Email: info@controlsystem.sk
http://www.controlsystem.sk

Slovenia

Please contact
VIPA Elektronik-Systeme GmbH,
Austria

Spain

Lenze Transmisiones S.A.
Milá i Fontanals, 135-139
ES-08205 Sabadell (Barcelona)
Ph: +34-93-720-7680
Fax: +34-93-712-2541
Email: vipa@lenze.es
http://www.lenze.es

Sweden

Sensor Control Nordic AB
Sollentunavägen 49
SE-191 40 Sollentuna
Ph.: +46 8 668 2100
Fax: +46 8 669 0110
Email: info@scn.se
http://www.scn.se

Switzerland

SATOMEK AG
Hinterbergstrasse 11
CH-6330 Cham
Ph: +41-41-748-1777
Fax: +41-41-748-1755
Email: info@satomek.ch
http://www.satomek.ch

Turkey

Robosistem Elektronik Ltd.
Organize Sanay Bölgesi
Sefaköy Sanayi Sitesi,
6 Blok, No: 23, Ikitelli
TR-Istanbul
Ph: +90-212-671-0007
Fax: +90-212-671-0008
Email: bilgi@robosistem.com
http://www.robosistem.com

Ukraine

SV Altera Ltd.
Lespe ave. 4
UA-03067 Kiev
Ph: +38-044-496-1888
Fax: +38-044-496-1818
Email: svaltera@svaltera.kiev.ua
http://www.svaltera.kiev.ua

DISTRIBUTORS – AFRICA

 **South Africa**
Anytech (Pty) Ltd.
APD Ind. Park, Unit 42
Elsecar Street
ZA- Kya-Sand, Gauteng 2163
Ph: +27-11-708-1992
Fax: +27-11-708-1745
Email: info@anytech.co.za
http://www.anytech.co.za

DISTRIBUTORS – AUSTRALIA

 **Australia**
VIPA Automation
PO Box 1778
AUS-Cleveland DC, QLD 4163
Ph: +61-7-3488-0177
Fax: +61-7-3488-0144
Email: sales@vipaautomation.com
http://www.vipaautomation.com

DISTRIBUTORS – AMERICA

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Email: info@exsolsa.com.ar
http://www.exsolsa.com.ar

 **Bolivia**
Larcos Grupo Industrial Ltda.
Av. Jose Carrasco No. 1398
Miraflores BOL-La Paz
Ph: +591-2-222-1808
Fax: +591-2-222-0085
Email: larcos@ceibo.entelnet.bo
http://www.grupolarcos.com


 **Brazil**
Orkan Automation Ind.
Jardim do Mar
Av. Kennedy, 164-2 Andar
BR-09726-250 Sao Bernardo
Ph: +55-11-4125-6088
Fax: +55-11-4125-8811
Email: vendas@orkan.com.br
http://www.orkan.com.br

 **Canada**
Franklin Empire Inc.
350 Carlingview Drive
CA-Toronto (Ontario) M9W 5G6
Ph: +1-416-248-0176
Fax: +1-416-248-2735
Email: peter.bayrachny@feinc.com
http://www.feinc.com

 **Chile**
Wolftech Ltda.
1026 Calle 1 San Miguel
CL-893-0098 Santiago de Chile
Ph: +56-2-3122578
Fax: +56-2-3214483
Email: fnaray@wolftech-chile.com
http://www.wolftech-chile.com

 **Colombia**
Ingeniería en Control
Calle 45 N, 5 69 Lagos 2
CO Bucaramanga
Ph: +57-300-5576076
Fax: +57-7-6485426
Email: soporte@ingencontrol.com
http://www.ingencontrol.com

 **Mexico**
Pillar Mexicana, S.A. de C.V.
Av. Revolucion 1315
Col. Campestre San Angel
MEX-01040 Mexico
Ph: +5255-5660-5553
Fax: +5255-5651-5573
Email: info@pillar.com.mx
http://www.pillar.com.mx

 **Peru**
Automatizacion y Control
Industrial S.A.C.
Pasaje Loma d. Pilar 115, Of. 301
Santiago de Surco
PE-Lima 33
Ph: +51-1-2780-105
Fax: +51-1-2780-205
Email: autc@autc.com.pe
http://www.autc.com.pe

 **Uruguay**
Tecncontrol s.r.l.
Cerro Largo 788 Bis.
UY-11000 Montevideo
Ph: +598-2-901 3311
Fax: +598-2-901 3311
Email: teccont@adinet.uy

 **USA**
VIPA Automation, Inc.
Kosse & Associates
109 Sunrise Lane #100
USA-Canton, GA 30115
Ph: +1-770-479-4024
Fax: +1-770-234-5774
Email: kosse@vipa-usa.com
http://www.vipa-usa.com

DISTRIBUTORS – ASIA

 **China, Headquarter**
VIPA China, Beijing Office
Unit 0525-0530, Landmark Bld. 2
8 North Dongsanhuan Road
CN-100004, Beijing, P.R. China
Ph: +86-10-659064-25/-26/-27
Fax: +86-10-65906-785
Email: beijing@wk-intersales.com
http://www.wk-intersales.com

 **China, Branch Office**
VIPA China, Shanghai Office
18B Jin An Tower, No. 908
Da Ming(E) Road
CN-200 082 Shanghai
Ph: +86-21-6595-1978/79/82/83
Fax: +86-21-6595-2198
Email: shanghai@wk-intersales.com
http://www.wk-intersales.com

 **China, Branch Office**
VIPA China, Chongqing Office
2103, Metropolitan Tower, No. 68
Zhourong Rd, Yuzhong District
400010 Chongqing P.R. China
Ph: +86-23-63739512
Fax: +86-23-63739572
Email: chongqing@wk-intersales.com
http://www.wk-intersales.com

 **China, Hongkong**
Ritech Engineering & Supply Co. Ltd.
Units 1-2, 10/F South
China Industrial Bldg. No. 1.
Chun Pin Street, Kwai Chung, N.T.
Ph: +852 2410 1819
Fax: +852 2410 1735

 **India**
VIPA Automation India Pvt Ltd.
B.R. House, 4th Floor
Hennur Main Road
IND-Bangalore 560043
Ph: +91-80-2543-5757/58
Fax: +91-80-2543-5759
Email: info@vipaindia.com

 **Indonesia**
Please contact
VIPA MALAYSIA SDN BHD, Malaysia

 **Korea**
DAESHIN Electric IND. CO.
71-546 Hongun 1-Dong,
Seodaemun-Gu
KR- Seoul 120-101
Ph: +82-2-3216-3011
Fax: +82-2-3216-2307
Email: dsmk@korea.com
http://www.candrive.co.kr

 **Malaysia**
VIPA MALAYSIA SDN BHD
No. 6F-10, IOI Business Park
No. 1, Persiaran Puchong Jaya
Selatan, Bandar Puchong Jaya
MY-47100 Selangor Darul Ehsan
Ph: +603-8076-5571
Fax: +603-8076-5491
Email: vipa@tm.net.my

 **Taiwan**
Nano-Trend Technology Co., Ltd.
1F, No.6-2, Alley 73, Sec.3,
Shin Yi Road,
TW-Taipei, Taiwan 106
Ph: +886-2-2701-3780
Fax: +886-2-2704-7694
Email: info@nano-trend.com
http://www.nano-trend.com

 **Thailand**
Please contact
VIPA MALAYSIA SDN BHD, Malaysia

 **Vietnam**
Please contact
VIPA MALAYSIA SDN BHD, Malaysia

DISTRIBUTORS – MIDDLE EAST

 **Egypt**
Alexandria Trading & Engineering
Bureau, El Masaged Sq.,
abo el abbas, office #3
EG-Alexandria
Ph: 002-03-4831353
Fax: 002-03-4849935
Email: ateb15@hotmail.com

 **Iran**
PSE Peyman Sanat
Espadna Eng. Co. Ltd.
No.18, Mohammadi Alley Mehr Str., 2nd
Moshtagh Ave
IR-Isfahan 81589-15441
Ph.: +98-311-2600266
Fax: +98-311-2606579
Email: sales@psecogroup.com
http://www.psecogroup.com

 **Israel**
C-Vision, Computer Systems Ltd.
9 Haomanut Street
Poleg Industry Area
IL-42504 Natanya
Ph: +972-9-86 33 066
Fax: +972-9-86 33 065
Email: info@c-vision.co.il
http://www.c-vision.co.il



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VIPA System 100V - The compact control system



The VIPA system 100V is a Micro-PLC system programmable with STEP[®]7 from Siemens or WinPLC7 – a programming tool from VIPA. With a compact design, system 100V provides a maximum expansion of up to 160 I/O points by plugging in expansion modules. These Micro-PLCs are especially suitable for use in smaller and cost-conscious applications.

Micro-PLC programmable with STEP[®]7 from Siemens

Features of VIPA System 100V:

- Programming software WinPLC7 lite from VIPA included
- Programmable with STEP[®]7 from Siemens
- Integrated work memory – operation is possible without additional memory card!
- Integrated ROM memory for continuous saving of programme and data
- Integrated accumulator-backed RAM memory
- Supports standard MMC cards for saving of programme and data
- MPI Interface on board
- Application for centralized and decentralized areas are possible
- Expandable by up to four signal and function modules from the VIPA 100V and 200V range
- Real-time clock
- Expandable work memory (except CPU 112)
- Compact design
- Maintenance-free cage clamps
- Front connector included
- Mounts on 35mm DIN rails
- 24 months warranty
- UL-standard certification



VIPA System 100V - The compact control system

SPS-CPU



Fig.: 114-6BJ02



112-4BH02	<p>CPU 112 - Micro PLC DC 24V, 8/16kB work/load memory, MP²I, MMC slot, real-time clock Periphery: DI 8xDC 24V, DIO 4xDC 24V (DO 0,5A), DO 4xDC 24V, 0,5A, potential separated, not expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
114-6BJ02	<p>CPU 114 - Micro PLC DC 24V, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Periphery: DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 4xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
114-6BJ52	<p>CPU 114R - Micro PLC DC 24V, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Periphery: DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DO 8xrelays, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL02	<p>CPU 115 - Micro PLC DC 24V, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Periphery: DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL12	<p>CPU 115SER - Micro PLC DC 24V, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Interface: PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master Periphery: DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL22	<p>CPU 115DP - Micro PLC DC 24V, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125 Periphery: DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>
115-6BL32	<p>CPU 115SER - Micro PLC DC 24V, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Interface: PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master Periphery: DI 16xDC 24V, thereof counter 2x32Bit (AB), up to 30kHz, DIO 4xDC 24V (DO 0,5A), DO 12xDC 24V, 0,5A, thereof 2xPWM, 50kHz, potential separated, expandable, incl. SW870 WinPLC7lite programming software (SW870 please order separately)</p>

VIPA System 100V - The compact control system

CLAMP MODULES



Fig.: 101-4FH50

101-4FH50 **CM 101 - Terminal module**
8x11 clamps

DIGITAL IN-/OUTPUT MODULES



Fig.: 123-4EJ01

123-4EH01 **EM 123 - Expansion module, digital**
DI 8xDC 24V, DO 8xDC 24V, 0,5A, potential separated

123-4EJ01 **EM 123 - Expansion module, digital**
DI 16xDC 24V, DO 8xDC 24V, 0,5A, potential separated

123-4EJ11 **EM 123 - Expansion module, digital**
DI 16xDC 24V, DO 8xrelays

123-4EJ20 **EM 123 - Expansion module, digital**
DI 16xAC 60...230V, DO 8xrelays

123-4EL01 **EM 123 - Expansion module, digital**
DI 16xDC 24V, DO 16xDC 24V, 0,5A, potential separated

FIELD BUS SLAVE MODULES (PROFIBUS-DP) – DIGITAL INPUT



Fig.: 151-4PH00



151-4PH00 **SM 151 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DI 16xDC 24V

151-6PH00 **SM 151 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DI 16xDC 24V, 4x11 clamps

151-6PL00 **SM 151 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DI 32xDC 24V

FIELD BUS SLAVE MODULES (PROFIBUS-DP) – DIGITAL OUTPUT



Fig.: 152-6PH50



152-4PH00 **SM 152 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DO 16xDC 24V, 1A

152-6PH00 **SM 152 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DO 16xDC 24V, 1A, 4x11 clamps

152-6PH50 **SM 152 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DO 16xrelays COM

152-6PL00 **SM 152 - Profibus-DP slave, digital**
DC 24V, 12MBaud, address 1...99, DO 32xDC 24V, 1A

VIPA System 100V - The compact control system

FIELDBUS SLAVE MODULES (PROFIBUS-DP) – DIGITAL IN-/OUTPUT



Fig.: 153-4PF00



153-4PF00	SM 153 - Profibus-DP slave, digital DC 24V, 12MBaud, address 1...99, DIO 8xDC 24V (DO 1A), 2x11 clamps
153-4PH00	SM 153 - Profibus-DP slave, digital DC 24V, 12MBaud, address 1...99, DI 8xDC 24V, DO 8xDC 24V, 1A
153-6PH00	SM 153 - Profibus-DP slave, digital DC 24V, 12MBaud, address 1...99, DI 8xDC 24V, DO 8xDC 24V, 1A, 4x11 clamps
153-6PL00	SM 153 - Profibus-DP slave, digital DC 24V, 12MBaud, address 1...99, DI 16xDC 24V, DO 16xDC 24V, 1A
153-6PL10	SM 153 - Profibus-DP slave, digital DC 24V, 12MBaud, address 1...99, DI 24xDC 24V, DO 8xDC 24V, 1A

FIELDBUS SLAVE MODULES (CANopen) – DIGITAL IN-/OUTPUT



Fig.: 153-4CH00



153-4CF00	SM 153 - CANopen slave, digital DC 24V, 1MBaud, address 0...99, DIO 8xDC 24V (DO 1A), 2x11 clamps
153-4CH00	SM 153 - CANopen slave, digital DC 24V, 1MBaud, address 0...99, DI 8xDC 24V, DIO 4xDC 24V (DO 1A), DO 4xDC 24V, 1A
153-6CH00	SM 153 - CANopen slave, digital DC 24V, 1MBaud, address 0...99, DI 8xDC 24V, DIO 4xDC 24V (DO 1A), DO 4xDC 24V, 1A, 4x11 clamps
153-6CL10	SM 153 - CANopen slave, digital DC 24V, 1MBaud, address 0...99, DI 24xDC 24V, DO 8xDC 24V, 1A

MEMORY EXPANSIONS



Fig.: MMC - MultiMediaCard

953-0KX10	MMC - MultiMediaCard Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
193-0KA00	ME 193A - Memory expansion total 24/32kB work/load memory for System 100V CPUs/CC 03. Please order the memory expansion together with the CPU or with CC03. The memory expansion will be carried out at VIPA.
193-0KB00	ME 193B - Memory expansion total 32/40kB work/load memory for System 100V CPUs/CC 03. Please order the memory expansion together with the CPU or with CC03. The memory expansion will be carried out through VIPA directly!

ACCESSORIES

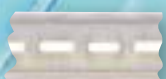


Fig.: 35mm DIN rail



Fig.: Front connector
• 10 pole



Fig.: 1-tier Bus connector

290-0AA10	Bus connector 1tier
290-1AF30	35mm DIN rail 530mm length (other lengths upon request)
292-1AF00	Front connector 10pole with cage clamps
HB100D	Manual System 100V, German
HB100E	Manual System 100V, English



VIPA System 200V - The modular control system



The VIPA System 200V is a highly compact and modular control system for centralized and decentralized applications. Due to the variety of modules available, it can be used for nearly all mid-range applications.



Modular control system programmable with STEP[®]7 from Siemens

Features of VIPA System 200V:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP[®]7 from Siemens
- Integrated work memory – operation possible without additional memory card!
- Integrated ROM memory for continuous saving of programme and data
- Integrated accumulator backed RAM memory
- Supporting standard MMC cards for saving of programme and data
- MPI Interface on board
- Centralized and decentralized applications are possible
- Modular expansion possible
- Real-time clock
- Centralized application with the possibility of up to 32 modules on the CPU rack
- Compact design
- Maintenance free cage clamps
- Front connector included
- 35mm DIN rail mounting
- 24 months warranty
- UL-standard certification



VIPA System 200V - The modular control system

PLC-CPU's



Fig.: 214-1BA02



Fig.: 215-2BP02



214-1BA02	CPU 214 - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock
214-1BC02	CPU 214C - PLC CPU DC 24V, 32/40kB work/load memory, MP ² I, MMC slot, real-time clock
214-2BM02	CPU 214DPM - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves
214-2BP02	CPU 214DP - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
214-2BS02	CPU 214SER - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP 2x RS232, ASCII, STX/ETX, 3964R with RK512
214-2BS12	CPU 214SER - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master, modem connectable
214-2BS32	CPU 214SER - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP RS485, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master
214-2BT10	CPU 214NET - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Ethernet-CP 243, S7 communication, RFC1006, TCP/IP, parameterizable with NetPro from Siemens
214-2CM02	CPU 214CAN - PLC CPU DC 24V, 48/80kB work/load memory, MP ² I, MMC slot, real-time clock Interface: CANopen master, 1MBaud, up to 126 slaves
215-1BA02	CPU 215 - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock
215-2BM02	CPU 215DPM - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves
215-2BP02	CPU 215DP - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
215-2BS02	CPU 215SER - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP 2x RS232, ASCII, STX/ETX, 3964R with RK512
215-2BS12	CPU 215SER - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master, modem connectable
215-2BS32	CPU 215SER - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP RS485, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master

VIPA System 200V - The modular control system

PLC-CPU



Fig.: 215-2BPo2



215-2BT10	CPU 215NET - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Ethernet-CP 243, S7 communication, RFC1006, TCP/IP, parameterizable with NetPro from Siemens
215-2CMo2	CPU 215CAN - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: CANopen master, 1MBaud, up to 126 slaves
216-1BAo2	CPU 216 - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock
216-2BMo2	CPU 216DPM - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves
216-2BPo2	CPU 216DP - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
216-2BSo2	CPU 216SER - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: 2x RS232, ASCII, STX/ETX, 3964R with RK512
216-2BS12	CPU 216SER - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP RS232, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master, modem connectable
216-2BS32	CPU 216SER - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: PtP RS485, ASCII, STX/ETX, 3964R, Modbus master/slave, USS master
216-2BT10	CPU 216NET - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Ethernet-CP 243, S7 communication, RFC1006, TCP/IP, parameterizable with NetPro from Siemens
216-2CMo2	CPU 216CAN - PLC CPU DC 24V, 128/192kB work/load memory, MP ² I, MMC slot, real-time clock Interface: CANopen master, 1MBaud, up to 126 slaves

CLAMPS MODULES



Fig.: 201-1AA10

201-1AA00	CM 201 - Double clamps module 2x11 clamps, grey/grey
201-1AA10	CM 201 - Double clamps module 2x11 clamps, green-yellow/grey
201-1AA20	CM 201 - Double clamps module 2x11 clamps, red/blue
201-1AA40	CM 201 - 4-tier clamps module 2x5 clamps grey/grey and 2x6pole red/blue

VIPA System 200V - The modular control system

POWER SUPPLY



Fig.: 207-2BA20

207-1BA00	PS 207 - Power supply AC 100/230V, DC 24V, 2A, 48W
207-2BA20	PS 207 - Power supply AC 100/230V, DC 24V, 2A, 48W with 2x11 clamps red/blue

DIGITAL INPUT MODULES



Fig.: 221-1BF00



Fig.: 221-1BH10



Fig.: 221-2BL10

221-1BF00	SM 221 - Digital input DI 8xDC 24V
221-1BF10	SM 221 - Digital input DI 8xDC 24V, 0,2 ms
221-1BF20	SM 221 - Digital input DI 8xDC 24V, alarm
221-1BF30	SM 221 - Digital input ECO DI 8xDC 24V
221-1BF50	SM 221 - Digital input DI 8xDC 24V, NPN
221-1BH00	SM 221 - Digital input DI 16xDC 24V, for conversion module DEA-UB4x
221-1BH10	SM 221 - Digital input DI 16xDC 24V
221-1BH20	SM 221 - Digital input DI 16xDC 24V, thereof counter 1x32Bit (AB), until 100kHz
221-1BH30	SM 221 - Digital input ECO DI 16xDC 24V
221-1BH50	SM 221 - Digital input DI 16xDC 24V, NPN, for conversion module DEA-UB4x
221-1FD00	SM 221 - Digital input DI 4xAC/DC 90...230V, potential separated per channel
221-1FF20	SM 221 - Digital input DI 8xAC/DC 60...230V
221-1FF30	SM 221 - Digital input DI 8xAC/DC 24...48V
221-1FF40	SM 221 - Digital input DI 8xAC 230V, 20mA input current, hysteresis
221-1FF50	SM 221 - Digital input DI 8xAC/DC 180...265V
221-2BL10	SM 221 - Digital input DI 32xDC 24V
KS221-1BH00	SM 221 Set - Digital input 1xSM 221-1BH00, DI 16xDC 24V, 1xDEA-KB91A (1m), 1xDEA-UB48
KSD221-1BH00	SM 221 Set - Digital input 1xSM 221-1BH00, DI 16xDC 24V, 1xDEA-KB91A (1m), 1xDEA-UB48D (3-wire)

VIPA System 200V - The modular control system

DIGITAL OUTPUT MODULES



Fig.: 222-1BF00



Fig.: 222-1BH00



Fig.: 222-2BL10

222-1BF00	SM 222 - Digital output DO 8xDC 24V, 1A
222-1BF10	SM 222 - Digital output DO 8xDC 24V, 2A
222-1BF20	SM 222 - Digital output DO 8xDC 24V, 2A, 4 groups per 2 outputs
222-1BF30	SM 222 - Digital output ECO DO 8xDC 24V, 0,5A
222-1BH00	SM 222 - Digital output DO 16xDC 24V, 0,5A, for conversion module DEA-UB4x
222-1BH10	SM 222 - Digital output DO 16xDC 24V, 1A, sum current up to 10A
222-1BH20	SM 222 - Digital output DO 16xDC 24V, 2A, sum current up to 10A
222-1BH30	SM 222 - Digital output ECO DO 16xDC 24V, 0,5A
222-1BH50	SM 222 - Digital output DO 16xDC 24V, 0,5A NPN, for conversion module DEA-UB4x
222-1FD10	SM 222 - Digital output DO 4xDC 400V/AC 230V, 0,5A, Solid State relays, potential separated per channel
222-1FF00	SM 222 - Digital output DO 8xDC 400V/AC 230V, 0,5A, Solid State relays COM
222-1HD10	SM 222 - Digital output DO 4xDC 30V/AC 230V, 5A, relays, potential separated per channel
222-1HD20	SM 222 - Digital output DO 4xDC 30V/AC 230V, 16A, relays, bistable, potential separated per channel
222-1HF00	SM 222 - Digital output DO 8xDC 30V/AC 230V, 5A, relays COM
222-2BL10	SM 222 - Digital output DO 32xDC 24V, 1A, 2 groups per 16 DO, sum current per group 10A
KS222-1BH00	SM 222 Set - Digital output 1xSM 222-1BH00, DO 16xDC 24V, 0,5A, 1xDEA-KB91A (1m), 1xDEA-UB48
KSD222-1BH00	SM 222 Set - Digital output 1xSM 222-1BH00, DO 16xDC 24V, 0,5A, 1xDEA-KB91A (1m), 1xDEA-UB48D (3-wire)

DIGITAL IN-/OUTPUT MODULES



Fig.: 223-1BF00

223-1BF00	SM 223 - Digital in-/output DIO 8xDC 24V (DO 1A)
223-2BL10	SM 223 - Digital in-/output DI 16xDC 24V, DO 16xDC 24V, 1A, sum current up to 10A

VIPA System 200V - The modular control system

ANALOG INPUT MODULES



Fig.: 231-1BD53

231-1BD30	SM 231 - Analog input ECO AI 4x12Bit, $\pm 10V$
231-1BD40	SM 231 - Analog input ECO AI 4x12Bit, 4...20mA, $\pm 20mA$
231-1BD53	SM 231 - Analog input AI 4x16Bit, U, I, R, TC, RTD
231-1BD60	SM 231 - Analog input AI 4x12Bit, 0/4...20mA, potential separated per channel
231-1BD70	SM 231 - Analog input AI 4x12Bit, $\pm 10V$, potential separated per channel
231-1BF00	SM 231 - Analog input AI 8x16Bit (2-wire), 4x16Bit (4-wire), 0..60 mV, TC, RTD
231-1FD00	SM 231 - Analog input FAST AI 4x16Bit, U, I, 1ms total

ANALOG OUTPUT MODULES



Fig.: 232-1BD51

232-1BD30	SM 232 - Analog output ECO AO 4x12Bit, 0...10V, $\pm 10V$
232-1BD40	SM 232 - Analog output ECO AO 4x12Bit, 0/4...20mA
232-1BD51	SM 232 - Analog output AO 4x12Bit, U, I

ANALOG IN-/OUTPUT MODULES



Fig.: 234-1BD50

234-1BD50	SM 234 - Analog in-/output AI 2x12Bit, U, I, AO 2x12Bit, U, I
234-1BD60	SM 234 - Analog in-/output AI 3x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I

COMBINATION MODULES



Fig.: 238-2BC00

238-2BC00	SM 238C - Digital in-/output, counter, Analog in-/output DI 12xDC 24V, counter 3x32Bit (AB), until 30kHz, DIO 4xDC 24V (DO 1A); AI 3x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I, only in connection with 21x CPUs
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VIPA System 200V - The modular control system

COMMUNICATION PROCESSORS



Fig.: 240-1BA20

240-1BA20	CP 240 - Communication processor PtP RS232, SubD 9 pol., potential separated, ASCII fragmented, STX/ETX, 3964R with RK512, Modbus master/slave short/long
240-1CA20	CP 240 - Communication processor PtP RS485, D-type pole, potential separated, ASCII fragmented, STX/ETX, 3964R with RK512, Modbus master/slave short/long
240-1DA10	CM 240 - Mini-switch 4xRJ45, Ethernet, 10/100MBit, Auto-negotiation, Speed-auto-sensing, Auto MDI/MDIX crossover, (external DC-In port for stand-alone operation, order nr. 970-oCM00, EUR 5,00)
240-1EA20	CP 240 - Communication processor EnOcean functransceiver, SMA jack, 868,3MHz, (please order antenna separately: 240-oEA00 or 240-oEA10)
240-1FA20	CP 240 - Communication processor M-Bus master, potential separated, up to 6 slaves

FIELD BUS MASTER MODULES



Fig.: 208-1CA00



208-1CA00	IM 208CAN - CANopen master 1MBaud, up to 126 slaves
208-1DP01	IM 208DP - Profibus-DP master RS485, 12MBaud, up to 125 slaves
208-1DP11	IM 208DPO - Profibus-DP master LWL interface (POF, HCS), 12MBaud, up to 125 slaves

COUNTER-/SSI MODULES



Fig.: 250-1BA00

250-1BA00	FM 250 - Counter module counter 2x32Bit (AB), until 1MHz, DO 2xDC 24V, 1A
250-1BS00	FM 250S - SSI-module 1xSSI, RS422, 12/24 Bit, 600KBaud, DO 2xDC 24V, 1A

POSITION MODULES



Fig.: 253-1BA00

253-1BA00	FM 253 - Positioning module for stepper motor, 1 axle, RS422, potential separated, DI 3xDC 24V, DO 2xDC 24V, 1A
254-1BA00	FM 254 - Positioning module for servo motor, 1 axle, incremental encor, RS422, potential separated, DI 3xDC 24V, DO 1xDC 24V, 1A

VIPA System 200V - The modular control system

INTERFACE MODULES



Fig.: 261-1CA00

260-1AA00	IM 260 - Interface module basic module for up to 3 expansion modules
261-1CA00	IM 261 - Interface module expansion module for the 2nd until 4th line

FIELD BUS SLAVE MODULES



Fig.: 240-1BA20



253-1CA01	IM 253CAN - CANopen slave DC 24V, 1MBaud, address 0...99, up to 32 modules
253-1CA30	IM 253CAN - CANopen slave ECO DC 24V, 1MBaud, address 1...125, up to 8 modules
253-1DN00	IM 253DN - DeviceNet slave DC 24V, 500KBaud, address 0...63, up to 32 modules
253-1DP01	IM 253DP - Profibus-DP slave DC 24V, 12MBaud, address 1...99, DP-Vo, DP-V1, configuration via GSD file from VIPA, up to 32 modules
253-1DP11	IM 253DPO - Profibus-DP slave DC 24V, 12MBaud, LWL interface (POF, HCS), address 1...99, DP-Vo, DP-V1, configuration via GSD file from VIPA, up to 32 modules
253-1DP31	IM 253DP - Profibus-DP slave ECO DC 24V, 12MBaud, address 1...125, DP-Vo, DP-V1, configuration via GSD file from VIPA, up to 8 modules
253-1IB00	IM 253IBS - INTERBUS slave DC 24V, up to 16 I/O modules
253-1NE00	IM 253NET - Ethernet slave DC 24V, Ethernet RJ45, 10/100MBit, S5 communication, Modbus TCP, up to 32 modules
253-2DP50	IM 253DPR - Profibus-DP slave DC 24V, 12MBaud, address 1...99, 2 channels redundant

PC-CPU



Fig.: 288-2BL10

288-2BL10	PC 288 CPU PC-LAN extended, STPC (486), 66MHz, DVI, RS232, Ethernet RJ45, 10/100MBit, TCP/IP, up to 32 I/O-module
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MEMORY EXPANSIONS



Fig.: MMC - MultiMedi-

953-0KX10	MMC - MultiMediaCard Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
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VIPA System 200V - The modular control system

ACCESSORIES



Fig.: 35mm DIN Rail



Fig.: 10 pole Front connector



Fig.: 1tier Bus connector

240-0EA00	CP 240 - EnOcean antenna , portable, incl. SMA connector
240-0EA10	CP 240 - EnOcean antenna , magnetic base, incl. 150cm cable and SMA connector
260-1XY05	Connection cable , for Interface modules, 0,5m
260-1XY10	Connection cable , for Interface modules, 1m
260-1XY15	Connection cable , for Interface modules, 1,5m
260-1XY20	Connection cable , for Interface modules, 2m
260-1XY25	Connection cable , for Interface modules, 2,5m
290-0AA10	Bus connector , 1tier
290-0AA20	Bus connector , 2tier
290-0AA40	Bus connector , 4tier
290-0AA80	Bus connector , 8tier
290-1AF30	35mm DIN rail , 530mm length (further lengths upon request)
292-1AF00	Front connector , 10pole with cage clamps
292-1AH00	Front connector , 18pole with cage clamps
292-1XY00	Labelling cards , (E/A-labelling) with transparent cover foil, 10 pieces
292-1XY10	Labelling cards , (E/A-labelling), perforated, 10 sheets each 8 cards
292-1XY20	Clip-on cards , (module-labelling), perforated, 10 sheets each 108 cards
970-0CM00	CM 240 - Jack , for CM 240 - mini switch, external DC 24V power supply
HB97D	Manual System 200V , German
HB97E	Manual System 200V , English

SPARE PARTS



Fig.: 231-1BD52

231-1BD52	SM 231 - Analog input (only for requirement, succession module 231-1BD53) AI 4x16Bit, U, I, TC, RTD
232-1BD50	SM 232 - Analog output (only for requirement, succession module 232-1BD51) AO 4x12Bit, U, I
240-1BA00	CP 240 - Communication processor (only for requirement, succession module 240-1BA20) PtP RS232, 20mA (TTY), D-type 25 pole, ASCII, STX/ETX, 3964R with RK512
240-1BA10	CP 240 - Communication processor (only for requirement, succession module 240-1BA20) PtP RS232, 20mA (TTY), D-type 25 pole, Modbus master/slave short
240-1CA00	CP 240 - Communication processor (only for requirement, succession module 240-1CA20) PtP RS422/485, D-type 25 pole, potential separated, ASCII, STX/ETX, 3964R with RK512
240-1CA10	CP 240 - Communication processor (only for requirement, succession module 240-1CA20) PtP RS422/485, D-type 25 pole, potential separated, Modbus master/slave short
241-1BA01	CPU 241 - PLC CPU (only for requirement) 8kB memory, AS511, MMC slot

VIPA System 200V - The modular control system

SPARE PARTS



Fig.: 242-2BP01

241-2BP01	CPU 241DP - PLC CPU (only for requirement) 8kB memory, AS511, MMC slot Interface: Profibus-DP slave, 12MBaud, address 1...125
241-2BT01	CPU 241NET - PLC CPU (only for requirement) 8kB memory, AS511, MMC slot Interface: Ethernet-CP 243, TCP/IP, S5 communication, incl. SW88o WinNCS parameterization software (SW88o please order separately)
242-1BA01	CPU 242 - PLC CPU (only for requirement) 32kB memory, AS511, MMC slot
242-2BP01	CPU 242DP - PLC CPU (only for requirement) 32kB memory, AS511, MMC slot Interface: Profibus-DP slave, 12MBaud, address 1...125
242-2BT01	CPU 242NET - PLC CPU (only for requirement) 32kB memory, AS511, MMC slot Interface: Ethernet-CP 243, TCP/IP, S5 communication, incl. SW88o WinNCS parameterization software (SW88o please order separately)
243-1BA01	CPU 243 - PLC CPU (only for requirement) 52kB memory, AS511, MMC slot, real-time clock
243-2BP01	CPU 243DP - PLC CPU (only for requirement) 52kB memory, AS511, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
243-2BT01	CPU 243NET - PLC CPU (only for requirement) 52kB memory, AS511, MMC slot, real-time clock Interface: Ethernet-CP 243, TCP/IP, S5 communication, incl. SW88o WinNCS parameterization software (SW88o please order separately)
244-1BA01	CPU 244 - PLC CPU (only for requirement) 104kB memory, AS511, MMC slot, real-time clock
244-2BP01	CPU 244DP - PLC CPU (only for requirement) 104kB memory, AS511, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
244-2BT01	CPU 244NET - PLC CPU (only for requirement) 104kB memory, AS511, MMC slot, real-time clock Interface: Ethernet-CP 243, TCP/IP, S5 communication, incl. SW88o WinNCS parameterization software (SW88o please order separately)
253-1DP00	IM 253DP - Profibus-DP slave (only for requirement, succession module 253-1DP01) DC 24V, 12MBaud, address 1...99, up to 32 modules
253-1DP10	IM 253DPO - Profibus-DP slave (only for requirement, succession module 253-1DP11) DC 24V, 12MBaud, LWL interface (POF, HCS), address 1...99, up to 32 modules

VIPA System 300V - The control system for centralized and decentralized applications



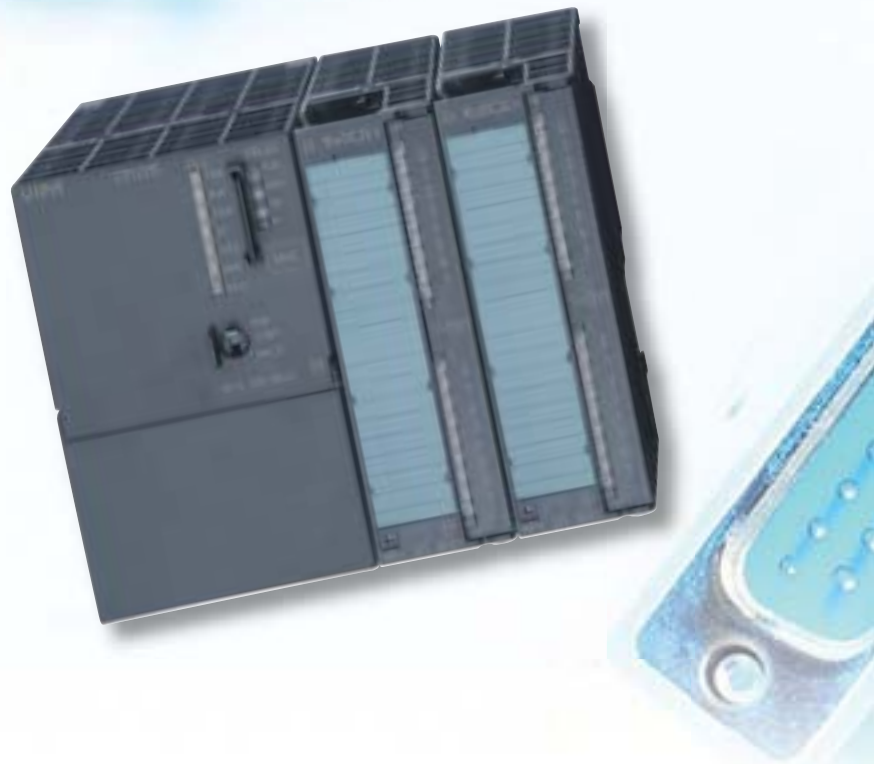
The VIPA System 300V is a modular control system designed to be compatible to the S7-300® from Siemens. It is suitable for centralized and decentralized applications in the medium and upper range of performance.



Control system for centralized and decentralized applications programmable with Step®7 from Siemens

Features of VIPA System 300V:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP®7 from Siemens
- Integrated work memory – operation is possible without additional memory card!
- Integrated ROM memory for continuous saving of programme and data
- Integrated battery backed RAM memory
- Supports standard MMC cards for saving of programme and data
- Profibus-DP- and MPI-Interface on board
- Designed to be compatible to the S7-300® from Siemens
- Real-time clock
- Centralized applications with up to 32 modules in one CPU rack
- Mixed operation with VIPA and Siemens modules is possible
- Central and decentral applications
- Modular for easy expansion
- 24 months warranty
- UL-standard certification



VIPA System 300V - The control system for centralized and decentralized applications

PLC-CPU's



Fig.: 315-1SL01



314-1SL01	CPU 314 - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
314-2DP01	CPU 314DPM - PLC CPU DC 24V, 96/144kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves
315-1SL01	CPU 315 - PLC CPU DC 24V, 192/256kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
315-2DP01	CPU 315DPM - PLC CPU DC 24V, 192/256kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves
316-1SL01	CPU 316 - PLC CPU DC 24V, 256/512kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125
316-2DP01	CPU 316DPM - PLC CPU DC 24V, 256/512kB work/load memory, MP ² I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves

POWER SUPPLY



Fig.: 307-1BA00

307-1BA00	PS 307 - Power supply AC 100/240V, DC 24V, 2,5A
307-1EA00	PS 307 - Power supply AC 100/240V, DC 24V, 5A
307-1KA00	PS 307 - Power supply AC 100/240V, DC 24V, 10A

DIGITAL INPUT MODULES



Fig.: 321-1BH01

321-1BH01	SM 321 - Digital input DI 16xDC 24V
321-1BL00	SM 321 - Digital input DI 32xDC 24V, two groups
321-1FH00	SM 321 - Digital input DI 16xAC 120/230V, four groups



VIPA System 300V - The control system for centralized and decentralized applications

DIGITAL OUTPUT MODULES



Fig.: 322-1BH01

322-1BF01	SM 322 - Digital output DO 8xDC 24V, 2A, two groups
322-1BH01	SM 322 - Digital output DO 16xDC 24V, 1A, two groups
322-1BH41	SM 322 - Digital output DO 16xDC 24V, 2A, two groups
322-1BH60	SM 322 - Digital output DO 16xDC 24V, 0,5A, one group, for manual-operation
322-1BL00	SM 322 - Digital output DO 32xDC 24V, 1A, four groups
322-5FF00	SM 322 - Digital output DO 8xAC 120/230V, 2A, potential separated per channel
322-1HH00	SM 322 - Digital output DO 16xrelays, DC 24V/AC 230V, 5A, two groups

DIGITAL IN-/OUTPUT MODULES



Fig.: 322-1BL00

323-1BH00	SM 323 - Digital in-/output DIO 16xDC 24V (DO 1A), two groups
323-1BL00	SM 323 - Digital in-/output DI 16xDC 24V, DO 16xDC 24V, 1A, one or two groups

ANALOG INPUT MODULES



Fig.: 331-7KB01

331-1KF01	SM 331 - Analog input AI 8x13Bit, U, I, R, RTD, for 4opole front connector
331-7KB01	SM 331 - Analog input AI 2x12Bit, U, I, R, TC, RTD
331-7KF01	SM 331 - Analog input AI 8x12Bit, U, I, R, TC, RTD

ANALOG OUTPUT MODULES



Fig.: 332-5HB01

332-5HB01	SM 332 - Analog output AO 2x12Bit, U, I
332-5HD01	SM 332 - Analog output AO 4x12Bit, U, I
332-5HD50	SM 332 - Analog output AO 4x12Bit, 4...20mA, for manual-operation
332-5HD60	SM 332 - Analog output AO 4x12Bit, 0...10V, for manual-operation

VIPA System 300V - The control system for centralized and decentralized applications

CONTROL MODULES



Fig.: 355-4SD00



Fig.: 355-4SF00

355-3SD00	FM 355 - Temperature control module 4 channels, current/voltage measurement inputs
355-3SD10	FM 355 - Temperature control module 4 channels, thermo element/Pt100 measurement inputs
355-3SF00	FM 355 - Temperature control module 8 channels, current/voltage measurement inputs
355-3SF10	FM 355 - Temperature control module 8 channels, thermo element/Pt100 measurement inputs
355-4SD00	FM 355 - Temperature control module 4 channels with output 8xDIO DC 24V (DO 0,5A), current/voltage measurement inputs
355-4SD10	FM 355 - Temperature control module 4 channels with output 8xDIO DC 24V (DO 0,5A), thermo element/Pt100 measurement inputs
355-4SF00	FM 355 - Temperature control module 8 channels with output 24xDIO DC 24V (DO 0,5A), current/voltage measurement inputs
355-4SF10	FM 355 - Temperature control module 8 channels with output 24xDIO DC 24V (DO 0,5A), thermo element/Pt100 measurement inputs

FIELD BUS SLAVE MODULES



Fig.: 353-1DP01

353-1CA00	IM 353CAN - CANopen slave DC 24V, 1MBaud, address 1...99, up to 32 modules
353-1DP01	IM 353DP - Profibus-DP slave DC 24V, 12MBaud, address 1...99, up to 32 modules, configuration via GSD file from VIPA

MEMORY EXPANSIONS



Fig.: MMC - MultiMediaCard

953-0KX10	MMC - MultiMediaCard Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
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VIPA System 300V - The control system for centralized and decentralized applications

ACCESSORIES



Fig.: 20pol. Front connector

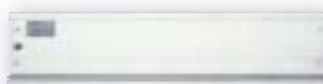


Fig.: DIN rail



Fig.: Manual

355-oAM00	Summing point for FM 355 Temperature control module with front connector 40pole screw contact in connection with thermo elements
355-oBM00	Summing point for FM 355 Temperature control module with front connector 40pole cage clamps in connection with thermo elements
390-1AB60	DIN rail length: 160mm
390-1AE80	DIN rail length: 482mm
390-1AF30	DIN rail length: 530mm
390-1AJ30	DIN rail length: 830mm
390-9AB60	DIN rail length: 160mm, ECO pack: 100 pieces
390-9AE80	DIN rail length: 482mm, ECO pack: 32 pieces
390-9AF30	DIN rail length: 530mm, ECO pack: 32 pieces
390-9AJ30	DIN rail 830mm, ECO pack: 20 pieces
390-9BC00	DIN rail 2000mm, ECO pack: 10 pieces
392-1AJ00	Front connector 20pole with screw contact
392-1AM00	Front connector 40pole with screw contact
392-1BJ00	Front connector 20pole with cage clamps
392-1BM01	Front connector 40pole with cage clamps
392-9AJ00	Front connector 20pole with screw contact, ECO pack: 100 pieces
392-9AM00	Front connector 40pole with screw contact, ECO pack: 100 pieces
HB130D	Manual System 300V , German
HB130E	Manual System 300V , English

VIPA System 300V - The control system for centralized and decentralized applications

SPARE PARTS



Fig.: 315-1SL01



314-3DP01	<p>CPU 314NET - PLC-CPU (only for requirement, succession module 315-2AG10 or 315-4NE11) DC 24V, 96/144kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves, Ethernet-CP 343, 4tier-switch, S7 communication, RFC1006, TCP/IP, incl. SW880 WinNCS parameterization software (SW880 please order separately)</p>
314-3SL01	<p>CPU 314NET - PLC-CPU (only for requirement, succession module 315-2AG10 or 315-4NE11) DC 24V, 96/144kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125, Ethernet-CP 343, 4tier-switch, S7 communication, RFC1006, TCP/IP, incl. SW880 WinNCS parameterization software (SW880 please order separately)</p>
315-3DP01	<p>CPU 315NET - PLC-CPU (only for requirement, succession module 315-2AG10 or 315-4NE11) DC 24V, 192/256kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves, Ethernet-CP 343, 4tier-switch, S7 communication, RFC1006, TCP/IP, incl. SW880 WinNCS parameterization software (SW880 please order separately)</p>
315-3SL01	<p>CPU 315NET - PLC-CPU (only for requirement, succession module 315-2AG10 or 315-4NE11) DC 24V, 192/256kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125, Ethernet-CP 343, 4tier-switch, S7 communication, RFC1006, TCP/IP, incl. SW880 WinNCS parameterization software (SW880 please order separately)</p>
316-3DP01	<p>CPU 316NET - PLC-CPU (only for requirement, succession module 315-2AG10 or 315-4NE11) DC 24V, 256/512kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP master, 12MBaud, up to 125 slaves, Ethernet-CP 343, 4tier-switch, S7 communication, RFC1006, TCP/IP, incl. SW880 WinNCS parameterization software (SW880 please order separately)</p>
316-3SL01	<p>CPU 316NET - PLC-CPU (only for requirement, succession module 315-2AG10 or 315-4NE11) DC 24V, 256/512kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125, Ethernet-CP 343, 4tier-switch, S7 communication, RFC1006, TCP/IP, incl. SW880 WinNCS parameterization software (SW880 please order separately)</p>

VIPA System 300S - The High-Speed control system



With the VIPA “SPEED7 Technology”, system 300S is the fastest control system in the world programmable with STEP®7 from Siemens. The maximum memory for program and data has already been integrated into the SPEED7 CPUs. For this reason the CPUs can be operated without an additional memory card. Depending on the CPU type, the integrated work memory can be expanded to 2MByte or 8MByte with the VIPA Memory extension card as required. All CPUs in the System 300S are equipped with an Ethernet Interface for PG/OP communication. A CP 343 interface for TCP/IP communication has been integrated in the ‘NET’ CPUs. Because of its high performance and scalable memory, system 300S is especially suitable for mid to high range applications.



High-Speed control system programmable with STEP®7 from Siemens

Features VIPA System 300S:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP®7 from Siemens
- Integrated work memory – operation is possible without using an additional memory card!
- Flexible extension of memory using a Memory extension card for the desired upgrade.
- Integrated battery backed RAM memory
- Supports standard MMC cards for saving of programme and data
- SPEED-Bus enabling expansion with High-Speed signal modules and communication processors
- Ethernet-, Profibus-DP- and MPI interface on board
- Profibus-DP-Master/PtP (switchable), 12MBaud, up to 125 slaves
- Designed compatibility to the S7-300® from Siemens
- Real-time clock
- Mixed operation is supported for VIPA and Siemens modules in the same rack
- Suitable for central and decentral applications
- Modular design for easy expansion
- Centralized applications with up to 32 modules in one CPU rack
- 24 months warranty
- UL-standard certification



VIPA System 300S - The High-Speed control system

PLC-CPU's



Fig.: 313-5BF03



313-5BF03 CPU 313SC - SPEED7 technology
 DC 24V, 64kByte, expandable up to 512kByte work memory (50% program/50% data), MPI, MMC slot, real-time clock
Interface:
 PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PG/OP communication
Periphery:
 DI 24xDC 24V (16 alarm capable), counter 3x32Bit (AB), up to 60kHz, DO 16xDC 24V, 0,5A, 3xPWM/3xStepper, AI 4x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I



Fig.: 314-6CF01



314-6CG03 CPU 314SC/DPM - SPEED7 technology
 DC 24V, 128kByte, expandable up to 1MByte work memory (50% program/50% data), MPI, MMC slot, real-time clock
Interface:
 Profibus-DP master, 12MBaud, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PG/OP communication
Periphery:
 DI 24xDC 24V (16 alarm capable), counter 4x32Bit (AB), up to 200kHz, DIO 8xDC 24V (DO 0,5A), DO 16xDC 24V, 0,5A, 4xPWM/4xstepper, AI 4x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I

314-6CF01 CPU 314ST/DPM - SPEED7 technology
 DC 24V, 512kByte, expandable up to 2MByte work memory (50% program/50% data), MP2I, MMC slot, real-time clock, SPEED-Bus
Interface:
 Profibus-DP master, 12MBaud, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PG/OP communication
Periphery:
 DI 8xDC 24V (alarm capable), counter 4x32Bit (AB), up to 100kHz, DIO 8xDC 24V (DO 0,5A), AI 4x12Bit, U, I, 1x12Bit, RTD, AO 2x12Bit, U, I



Fig.: 315-2AG10



315-2AG10 CPU 315SB/DPM - SPEED7 technology
 DC 24V, 1MByte, expandable up to 2MByte work memory (50% program/50% data), MP2I, MMC slot, real-time clock
Interface:
 Profibus-DP master, 12MBaud, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PG/OP communication

315-4NE11 CPU 315SN/NET - SPEED7 technology
 DC 24V, 1MByte, expandable up to 2MByte work memory (50% program/50% data), MP2I, MMC slot, real-time clock
Interface:
 Profibus-DP master, 12MBaud, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, Ethernet interface for PG/OP communication, USS-Master, Ethernet-CP 343 Lean, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 8 connections

317-2AJ12 CPU 317SE/DPM - SPEED7 technology
 DC 24V, 2MByte, expandable up to 8MByte work memory (50% program/50% data), MPI, MMC slot, real-time clock, SPEED-Bus
Interface:
 Profibus-DP master, 12MBaud, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PG/OP communication

317-4NE12 CPU 317SN/NET - SPEED7 technology
 DC 24V, 2MByte, expandable up to 8MByte work memory (50% program/50% data), MPI, MMC slot, real-time clock, SPEED-Bus
Interface:
 Profibus-DP master, 12MBaud, up to 125 slaves/PtP RS485, potential separated, ASCII, STX/ETX, 3964R, Modbus master, USS master, Ethernet interface for PG/OP communication, Ethernet-CP 343, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 16 connections



Fig.: 317-2AJ12



Cross-system compatibility!
 Modules of system 300V can be applied with SPEED7-CPU's.



System 100V

System 200V

System 300V

System 300S

System 500S

HMI

Software

Accessories

VIPA System 300S - The High-Speed control system

POWER SUPPLY



Fig.: 307-1BF70

307-1FB70 **PS 307 - Power supply - SPEED7**
DC 24V, 6...12A, for SPEED-Bus

DIGITAL INPUT MODULES



Fig.: 321-1BH70

321-1BH70 **SM 321S - FAST Digital input - SPEED-Bus**
DI 16xDC 24V, parameterizable 2,56µs...40ms

DIGITAL OUTPUT MODULES



Fig.: 322-1BH70

322-1BH70 **SM 322S - FAST Digital output - SPEED-Bus**
DO 16xDC 24V, 0,5A, 100kHz

DIGITAL IN-/OUTPUT MODULES



Fig.: 323-1BH70

323-1BH70 **SM 323S - FAST Digital in-/output - SPEED-Bus**
DIO 16xDC 24V (DO 0,5A), DI parameterizable 2,56µs...40ms, DO 100kHz



VIPA System 300S - The High-Speed control system

ANALOG INPUT MODULES



Abb.: 331-7AF70

331-7AF70	SM 331S - FAST Analog input - SPEED-Bus AI 8x16Bit, $\pm 20\text{mA}$ (interrupt capability), 100 μs , parameterizable on request: 32kByte, Cache memory per channel to Trigger.
331-7BF70	SM 331S - FAST Analog input - SPEED-Bus AI 8x16Bit, $\pm 10\text{V}$ (interrupt capability), 100 μs , parameterizable on request: 32kByte, Cache memory per channel to Trigger.

FIELDBUS MASTER MODULES



Fig.: 342-1DA70



342-1CA70	CP 342S CAN - CANopen master - SPEED-Bus 1MBaud, up to 126 slaves
342-1DA70	CP 342S DP - Profibus-DP master - SPEED-Bus 12MBaud, up to 125 slaves
342-1IA70	CP 342S IBS - Interbus master - SPEED-Bus 500KBaud, up to 128 slaves

ETHERNET-CPs



Fig.: 343-1EX71

TCP/IP

343-1EX71	CP 343S TCP/IP - Ethernet-CP 343 - SPEED-Bus S7 communication, RFC1006, H1, TCP/IP, UDP, up to 16 connections
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VIPA System 300S - The High-Speed control system

MEMORY EXTENSIONS



Fig.: MCC - Memory extension card
• 32kByte up to 8MByte

953-0KX10	MMC - MultiMediaCard Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
953-1LE00	MCC - Memory extension card 32kByte for SPEED7-CPUs, 16kByte program/16kByte data
953-1LF00	MCC - Memory extension card 64kByte for SPEED7-CPUs, 32kByte program/32kByte data
953-1LG00	MCC - Memory extension card 128kByte for SPEED7-CPUs, 64kByte program/64kByte data
953-1LH00	MCC - Memory extension card 256kByte for SPEED7-CPUs, 128kByte program/128kByte data
953-1LJ00	MCC - Memory extension card 512kByte for SPEED7-CPUs, 256kByte program/256kByte data
953-1LK00	MCC - Memory extension card 1MByte for SPEED7-CPUs, 512kByte program/512kByte data
953-1LL00	MCC - Memory extension card 2MByte for SPEED7-CPUs, 1MByte program/1MByte data
953-1LM00	MCC - Memory extension card 4MByte for SPEED7-CPUs, 2MByte program/2MByte data
953-1LP00	MCC - Memory extension card 8MByte for SPEED7-CPUs, 4MByte program/4MByte data

ACCESSORIES



Fig.: DIN rail

342-01A00	CP 342 IBS - Configuration-/Diagnosis module for 342-1A70, LC display, 7 buttons, cable 0,5m
390-1AB60	DIN rail length: 160mm
390-1AE80	DIN rail length: 482mm
390-1AF30	DIN rail length: 530mm
390-1AJ30	DIN rail length: 830mm
390-9AB60	DIN rail length: 160mm, ECO pack: 100 pieces
390-9AE80	DIN rail length: 482mm, ECO pack: 32 pieces
390-9AF30	DIN rail length: 530mm, ECO pack: 32 pieces
390-9AJ30	DIN rail 830mm, ECO pack: 20 pieces
390-9BC00	DIN rail 2000mm, ECO pack: 10 pieces

VIPA System 300S - The High-Speed control system

ACCESSORIES



Fig.: SPEED-Bus

- BP 391 - SPEED-Bus, DIN rail, 530mm with integrated High-SPEED rear panel bus with up to 10 expansion slots



Fig.: 20pol. Front connector

391-1AF10	BP 391 - SPEED-Bus DIN rail, 530mm with integrated High-SPEED rear panel bus for 2 expansion slots
391-1AF30	BP 391 - SPEED-Bus DIN rail, 530mm with integrated High-SPEED rear panel bus for 6 expansion slots
391-1AF50	BP 391 - SPEED-Bus DIN rail, 530mm with integrated High-SPEED rear panel bus for 10 expansion slots
392-1AJ00	Front connector 20pole with screw contact
392-1AM00	Front connector 40pole with screw contact
392-1BJ00	Front connector 20pole with cage clamps
392-1BM01	Front connector 40pole with cage clamps
392-9AJ00	Front connector 20pole with screw contact, ECO pack: 100 pieces
392-9AM00	Front connector 40pole with screw contact, ECO pack: 100 pieces
HB140D	Manual System 300S, SPEED7, German
HB140E	Manual System 300S, SPEED7, English

www.SPEED7.de

VIPA System 500S - The PC control system



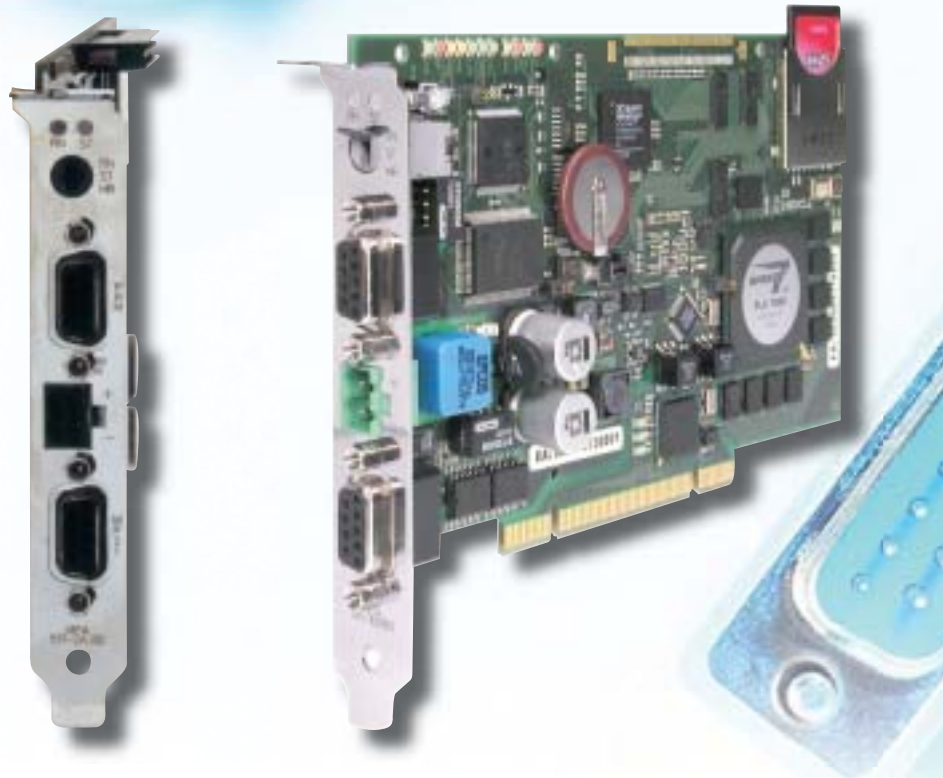
With the VIPA “Speed7 Technology”, system 500S is the fastest control system, programmable with STEP[®]7 from Siemens, in the world. The maximum memory for program and data has already been integrated into the SPEED7 CPUs. Depending on the CPU type, the integrated memory can be expanded from 256kByte/512kByte to 2MByte/8MByte respectively using the appropriate VIPA MCC - Memory extension card. The VIPA system 500S has been designed for operation in a PC slot with PCI interface. An OPC server for communication between CPU and PC is included in the scope of delivery. Peripherals are connected through the integrated Profibus-DP-Master interface. The CPUs are equipped with an Ethernet interface for PG/OP communication. The CPU 517S/NET has an additional CP343 for TCP/IP communication. Owing to their high performance (Speed7 Technology) and their scaleable memory, the CPUs are suitable for complex control tasks.



Control system programmable with STEP[®]7 from Siemens

Features of VIPA System 500S:

- Programmable with WinPLC7 from VIPA
- Programmable with STEP[®]7 from Siemens
- Integrated work memory – operation is possible without additional memory card!
- Flexible extension of the memory using a Memory extension card (MCC) for the desired upgrade
- Integrated battery backed RAM memory
- Real-time clock
- Supports standard MMC cards for saving of programme and data
- Ethernet-, Profibus-DP and MPI interface on board
- OPC server included
- 24 months warranty
- UL-standard certification



VIPA System 500S - The PC control system

PLC-CPU's



Fig.: 517-2AJ00



515-2AJ00	<p>CPU 515S/DPM - SPEED technology external DC 24V power supply, 1MByte, expandable up to 2MByte work memory (50% program/50% data), MP²I, MMC slot, real-time clock</p> <p>Interface: Profibus-DP master, 12MBaud, up to 125 slaves, PCI-Ethernet interface for PG/OP communication, incl. SW860R OPC server (SW860R please order separately)</p>
517-2AJ00	<p>CPU 517S/DPM - SPEED7 technology external DC 24V power supply, 2MByte, expandable up to 8MByte work memory (50% program/50% data), MP²I, MMC slot, real-time clock</p> <p>Interface: Profibus-DP master, 12MBaud, up to 125 slaves, PCI-Ethernet interface for PG/OP communication, incl. SW860R OPC server (SW860R please order separately)</p>
517-4NE00	<p>CPU 517S/NET - SPEED7 technology external DC 24V power supply, 2MByte, expandable up to 8MByte work memory (50% program/50% data), MP²I, MMC slot, real-time clock</p> <p>Interface: Profibus-DP-Master, 12MBaud, up to 125 slaves, PCI-Ethernet interface for PG/OP communication, incl. SW860R OPC-Server (SW860R please order separately)</p> <p>2. Slot: Ethernet-CP 543, S7 communication, RFC1006, H1, TCP/IP, UDP, up to 16 connections</p>

MEMORY EXTENSIONS



Fig.: MCC - Memory extension card
• 32kByte up to 8MByte

953-0KX10	<p>MMC - MultiMediaCard Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)</p>
953-1LE00	<p>MCC - Memory extension card 32kByte for SPEED7-CPUs, 16kByte program/16kByte data</p>
953-1LF00	<p>MCC - Memory extension card 64kByte for SPEED7-CPUs, 32kByte program/32kByte data</p>
953-1LG00	<p>MCC - Memory extension card 128kByte for SPEED7-CPUs, 64kByte program/64kByte data</p>
953-1LH00	<p>MCC - Memory extension card 256kByte for SPEED7-CPUs, 128kByte program/128kByte data</p>
953-1LJ00	<p>MCC - Memory extension card 512kByte for SPEED7-CPUs, 256kByte program/256kByte data</p>
953-1LK00	<p>MCC - Memory extension card 1MByte for SPEED7-CPUs, 512kByte program/512kByte data</p>
953-1LL00	<p>MCC - Memory extension card 2MByte for SPEED7-CPUs, 1MByte program/1MByte data</p>
953-1LM00	<p>MCC - Memory extension card 4MByte for SPEED7-CPUs, 2MByte program/2MByte data</p>
953-1LP00	<p>MCC - Memory extension card 8MByte for SPEED7-CPUs, 4MByte program/4MByte data</p>

ACCESSORIES

HB145D	Manual System 500S, SPEED7, German
HB145E	Manual System 500S, SPEED7, English

HMI

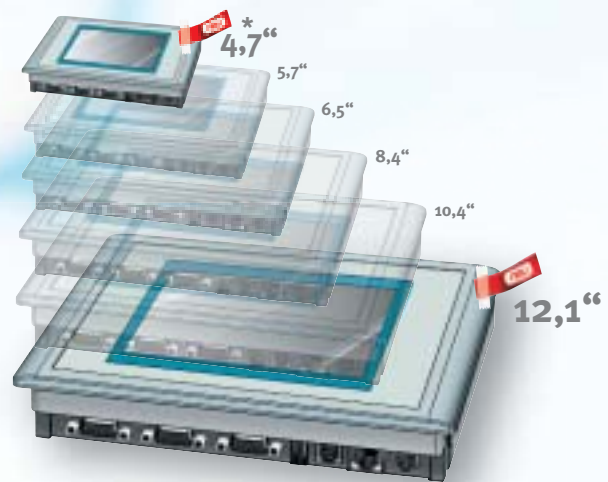


With display sizes of 5,7" to 12,1", Windows®CE 5.0 operating system and visualization software, the VIPA Touch Panels provide universally desirable solutions. The Touch Panels can also be installed with Windows®CE 5.0, Windows®CE5.0Professional and with MoviconX Real Flexible or zenOn 6.20. The VIPA Commander Compact CC 03 with double spaced display, integrated CPU and I/O expansion capacity is the ideal solution for smaller control and operator tasks. The VIPA Operator Panel OP 03 and the Text Display TD 03 are universal operator panels for application with VIPA Systems and other control systems via MPI interface.

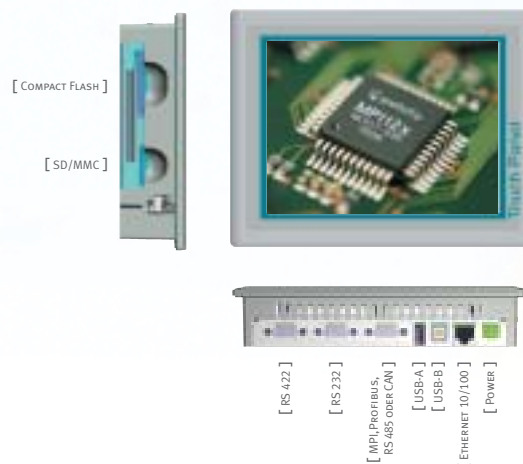


Features HMI:

- Display sizes: 5,7" – 12,1"
- Display types: STN LCD monochrome and TFT color
- Processor: XSCALE 520MHz
- Memory: 6MByte integrated memory expandable via SD, MMC and CF card
- Interfaces: RS232-, RS485-, RS422-, MPI-, Profibus-DP Slave, Ethernet RJ45-, USB.A- and USB.B- interfaces on board (according to type)
- Operating system: Windows® CE 5.0 included, optionally Windows® CE 5.0 Professional Plus
- Visualization system – including MoviconX Real Flexible or zenOn 6.20
- CE and UL certification
- Worldwide availability
- 24months guarantee



*coming soon



[COMPACT FLASH]

[SD/MMC]

[RS 422]

[RS 232]

[MPI Profibus
RS 485 over CAN]

[USB-A]

[USB-B]

[ETHERNET 10/100]

[Power]

LINES DISPLAY



Fig.: 603-1CC21



Fig.: 603-1OP00



Fig.: 603-1TD00

603-1CC21	<p>CC 03 - CommanderCompact DC 24V, 2x 20 characters display, integrated PLC-CPU, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Periphery: DI 16xDC 24V, DO 16xDC 24V, 0,5A on board, potential separated, up to 4 I/O expansion modules via periphery expansion cable</p>
603-2CC21	<p>CC 03DP - CommanderCompact DC 24V, 2x 20 characters display, integrated PLC-CPU, 16/24kB work/load memory, MP²I, MMC slot, real-time clock Interface: Profibus-DP slave, 12MBaud, address 1...125 Periphery: DI 16xDC 24V, DO 16xDC 24V, 0,5A on board, potential separated, up to 4 I/O expansion modules via periphery expansion cable</p>
603-1OP00	<p>OP 03 - Operator Panel DC 24V, 2x 20 characters display, 256kB operator memory, 4096 variables, for application at VIPA CPUs with MP²I interface and with STEP[®]7 programmable CPUs from Siemens, incl. programming cable 2,5m</p>
603-1TD00	<p>TD 03 - Text Display DC 24V, 2x 20 characters display for application at VIPA CPUs with MP²I interface and with STEP[®]7 programmable CPUs from Siemens, incl. programming cable 2,5m and SW610 TD-Wizard parameterization software (SW610 please order separately)</p>

TOUCH PANELS



Fig.: Touch Panel

605-1BC00	<p>Touch Panel TP605CQ DC 24V, 5,7" QVGA, TFT color, MPI/Profibus-DP/RS485, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)</p>
605-1BC40	<p>Touch Panel TP605CQ CAN DC 24V, 5,7" QVGA, TFT color, CAN interface, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately), CAN driver for zenOn-Runtime in preparation</p>
605-1BL00	<p>Touch Panel TP605LQS DC 24V, 5,7" QVGA, LCD monochrome, MPI/Profibus-DP/RS485, USB-B, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)</p>
605-1BL30	<p>Touch Panel TP605LQE DC 24V, 5,7" QVGA, LCD monochrome, Ethernet RJ45, USB-B, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)</p>
605-1BM00	<p>Touch Panel TP605MQ DC 24V, 5,7" QVGA, LCD monochrome, MPI/Profibus-DP/RS485, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)</p>
606-1BC00	<p>Touch Panel TP606C DC 24V, 6,5" VGA, TFT color, MPI/Profibus-DP/RS485, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)</p>

TOUCH PANELS



Fig.: Touch Panel

606-1BC40	Touch Panel TP606C CAN DC 24V, 6,5" VGA, TFT color, CAN interface, RS232, RS422/485, USB-A, USB-B, Ethernet RJ45, incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately), CAN driver for zenOn-Runtime in preparation
608-1BC00	Touch Panel TP608C DC 24V, 8,4" SVGA, TFT color, MPI/Profibus-DP/RS485, RS232, RS422/485, USB-A, USB-B, 2xEthernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)
608-1BC40	Touch Panel TP608C CAN DC 24V, 8,4" SVGA, TFT color, CAN interface, RS232, RS422/485, USB-A, USB-B, 2xEthernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately), CAN driver for zenOn-Runtime in preparation
610-1BC00	Touch Panel TP610C DC 24V, 10,4" SVGA, TFT color, MPI/Profibus-DP/RS485, RS232, RS422/485, 2xUSB-A, USB-B, 2xEthernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)
610-1BC40	Touch Panel TP610C CAN DC 24V, 10,4" SVGA, TFT color, CAN interface, RS232, RS422/485, 2xUSB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately), CAN driver for zenOn-Runtime in preparation
612-1BC00	Touch Panel TP612C DC 24V, 12,1" SVGA, TFT color, MPI/Profibus-DP/RS485, 2xRS232, RS422/485, 2xUSB-A, USB-B, 2x Ethernet RJ45 (switch), incl. SW660 Windows CE 5.0 and Runtime SW925 MoviconX Real Flexible or SW935 zenOn 6.20 (Software please order separately)

MEMORY EXPANSIONS



CompactFlash for Touch Panels
 • 64MByte up to 1GByte

953-0KX10	MMC - MultiMediaCard Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x and 208-1DP01, CC 03 (for load memory not necessary)
574-2AD00	CF - CompactFlash Memory Card 64MByte for VIPA Touch Panels
574-2AE00	CF - CompactFlash Memory Card 128MByte for VIPA Touch Panels
574-2AF00	CF - CompactFlash Memory Card 256MByte for VIPA Touch Panels
574-2AG00	CF - CompactFlash Memory Card 512MByte for VIPA Touch Panels
574-2AH00	CF - CompactFlash Memory Card 1GByte for VIPA Touch Panels
953-1SD00	SD - SecureDisk Memory Card 64MByte for VIPA Touch Panels
953-1SE00	SD - SecureDisk Memory Card 128MByte for VIPA Touch Panels

MEMORY EXPANSIONS



SD Card for Touch Panels
• 64MByte up to 1GByte

953-1SF00	SD - SecureDisk Memory Card 256MByte for VIPA Touch Panels
953-1SG00	SD - SecureDisk Memory Card 512MByte for VIPA Touch Panels
953-1SH00	SD - SecureDisk Memory Card 1GByte for VIPA Touch Panels
193-oKA00	ME 193A - memory expansion total 24/32kB work/load memory for System 100V-CPU/CC 03. Please order the memory expansion together with the CPU or CC 03. The memory expansion will be carried out at VIPA.
193-oKB00	ME 193B - memory expansion total 32/40kB work/load memory for System 100V CPU/CC 03. Please order the memory expansion together with CPU or CC 03. The memory expansion will be carried out at VIPA.

ACCESSORIES



Fig.: 660-oKB00
Periphery expansion cable

574-1AD00	Protective foil TP605/TP606 for Touch Panel 5,7" and 6,5", 10 pieces
574-1AD10	Protective foil TP608/TP610 for Touch Panel 8,4" and 10,4", 10 pieces
660-oKB00	Periphery expansion cable CC 03 for up to 4 expansion modules EM 123 or System 200V module, 0,5m
670-oKB00	OP/AG-cable 0°/90° with PG-/Diagnostic port for VIPA CC 03, OP 03, TD 03
670-oKB01	OP/AG-cable 90°/90° with PG-/Diagnostic port for VIPA CC 03, OP 03, TD 03
670-oKB10	USB-programming cable for Touch Panels with MoviconX Real Flexible, 3,0m
670-oKB20	Ethernet programming cable for Touch Panels with MoviconX Real Flexible and zenOn 6.20, 3,0m
HB116D	Manual TD 03/OP 03/CC 03, German
HB116E	Manual TD 03/OP 03/CC 03, English
HB160D	Manual TouchPanel, German
HB160E	Manual TouchPanel, English

VIPA Software



The VIPA Software options offer effective and comfortable tools for programming and parameterization of VIPA systems and other automation concepts. The whole VIPA Software assortment can be found on the ToolDemo-CD (SW810) which offers demo versions free of charge, upgradable to full licensing when required.



VIPA Software Overview:

- WinPLC7 – PLC programming software and simulation tool
- WinNCS – Parameterization tool for TCP/IP and Profibus-DP
- WinCoCT – Parameterization tool for VIPA CANopen Master
- OP-Manager – Parameterization tool for OP 03
- TD-Wizard – Parameterization tool for TD 03
- OPC-Server – Software interface for data exchange via MP2I, TCP/IP and RFC1006
- MoviconX – Visualization software – Editor and Runtime
- PLC Agent-pro – PLC Analyzer for VIPA controllers and S5®/S7® controllers from Siemens
- WinLP – labelling software for VIPA System 200V
- Eplan Macros – Technical information and drawings on Vipa systems 100V, 200V, 300V and 300S
- Handling blocks – Libraries for Vipa systems and components
- Drivers – Device support for VIPA IPC, Slot PLC and communication processors
- Demo projects – Configurations for Vipa system 200V and 300V
- GSD/EDS files – Configuration files for Profibus-DP and CANopen
- How-to-do's – Information for initial set-up



OPC-SERVER



Fig.: OPC-Server

SW860M	OPC server MPI driver licence Company licences or multiple licences upon request!
SW860R	OPC server RFC1006-driver licence Company licences or multiple licences upon request!
SW860T	OPC server TCP/IP-driver licence (Read/Write) Company licences or multiple licences upon request!

PROGRAMMING SOFTWARE



Fig.: WinPLC

SW873	WinPLC7 - complete version, Tool for STEP[®]7 from Siemens programming-, test-, diagnosis- and simulation software for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300 from Siemens, STL-, FDB- and LAD-programming. Company licences or multiple licences upon request!
SW873KEY	WinPLC7 - complete version, Tool for STEP[®]7 from Siemens programming-, test, diagnosis and simulation software for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300 from Siemens, STL-, FDB- and LAD-programming. Company licences or multiple licences upon request! http://www.winplc7.com/v3/vipa/download.htm

PARAMETERIZATION SOFTWARE



Fig.: TD-Wizard

SW355	Project package for VIPA FM 355 temperature control modules
SW610	TD-Wizard parameterization tool for TD 03
SW880	WinNCS - Universal parameterization- and configuration tool (Windows 98SE/ME/NT/2000/XP) - Components engineering - Ethernet protocols TCP/IP, SINEC H1, IPK, RFC1006 - Profibus-DP (2BF)
SW900	WinCoCT CANopenConfiguration-Tool
SW910	OP-Manager Parameterization tool for OP 03

VIPA Software

SYSTEM SOFTWARE



SW660	Windows® CE 5.0 only in combination with VIPA Touch Panels (installed)
SW661	Windows® CE 5.0 Professional Plus only in combination with VIPA Touch Panels (installed)

HMI-SOFTWARE



SW925	MoviconX-Runtime (only in combination with VIPA Touch Panels)
SW935	zenOn 6.20-Runtime (only in combination with VIPA Touch Panels)



SW935A	zenOn 6.20-Runtime-Upgrade 1024 I/Os on 2048 I/Os
SW935B	zenOn 6.20-Runtime-Upgrade 1024 I/Os on 4096 I/Os
SW935C	zenOn 6.20-Runtime-Upgrade 1024 I/Os on 8192 I/Os
SW935N	zenOn 6.20-OS-Upgrade Network-Extension
SW920	MoviconX-Editor for Windows CE 5.0
SW930	zenOn 6.20-Editor for Windows CE 5.0



ANALYSIS TOOL



Fig.: WinPLC-Analyzer

SW980	PLC analysis tool for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300/400 from Siemens, incl. driver
SW981	PLC analysis tool for VIPA Systems 100V, 200V, 300S, 300V, 500S and S7-300/400 from Siemens (in combination with WinPLC7), incl. driver

OTHER SOFTWARE



Fig.: ToolDemo-CD

SW800	Manuals & More complete documentation on CD-Rom
SW810	ToolDemo-CD complete VIPA-Software collection: WinPLC7, MoviconX-Editor, OP-Manager, TD-Wizard, OPC server, WinCoCT, WinNCS, GSD-/EDS-files, handling blocks, driver, How-to-do's

ACCESSORIES



Fig.: Manual

HB45D	Manual OPC server , German
HB45E	Manual OPC server , English
HB91D	Manual WinNCS , German
HB91E	Manual WinNCS , English

VIPA Accessories



VIPA offers a wide range of accessories like programming, download or Profibus-DP cables, memory modules and Profibus-DP plugs with diagnosis.



ACCESSORIES



Fig.: MC 951 Memory Card
 • Flash Eprom, short, 16kByte up to 512kByte for the S7-300 from Siemens



Fig.: Standard Profibus cable
 • FCC 2xAWG 22 - standard profibus cable, preset cable laying according to EN 50170, flame resistant according to VDE 0472, T804 inspection B, shell color violet

951-oKDoo	MC 951 - Memory Card 16kByte for S7-300 from Siemens, Flash Eprom, short
951-oKEoo	MC 951 - Memory Card 32kByte for S7-300 from Siemens, Flash Eprom, short
951-oKFoo	MC 951 - Memory Card 64kByte for S7-300 from Siemens, Flash Eprom, short
951-oKGoo	MC 951 - Memory Card 128kByte for S7-300 from Siemens, Flash Eprom, short
951-oKJoo	MC 951 - Memory Card 512kByte for S7-300 from Siemens, Flash Eprom, short
830-oLCoo	FCC 2xAWG 22 - Standard Profibus cable Fixed installation according to EN 50170, flame retardent according to VDE 0472, T804 test type B, cable shell color violet, 100m ring
830-oLDoo	FCC 2xAWG 22 - Standard Profibus cable Fixed installation according to EN 50170, flame retardent according to VDE 0472, T804 test type B, cable shell color violet, 200m ring
830-oLEoo	FCC 2xAWG 22 - Standard Profibus cable Fixed installation according to EN 50170, flame retardent according to VDE 0472, T804 test type B, cable shell color violet, 500m on role
830-oLFoo	FCC 2xAWG 22 - Standard Profibus cable Fixed installation according to EN 50170, flame retardent according to VDE 0472, T804 test type B, cable shell color violet, 1000m on role
950-oADoo	USB adapter for MMC programming (Windows 98SE/ME/2000/XP)
950-oAD1o	PCMCIA adapter for MMC programming

ACCESSORIES

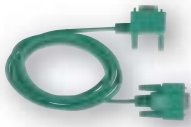


Fig.: VIPA „Green Cable“

- Programming and download cable, RS232/MP²I 2,5m for VIPA CPUs 100V, 200V and 300V



Fig.: EasyConn PB90°/PB45°/PB0° -SubD-plug

- 12Mbit/s, metal case, PG-jack, insulation piercing, connection switchable termination resistor



PC/AG programming cable

- MPI/PPI-RS232-Adapter, external voltage supply, 3m
- MPI-USB-Adapter, 3m
- MPI-TCP/IP-Adapter, 3m
- MPI-cable with PG-diagnostic port 2,5m

950-oKB00	VIPA “Green Cable” programming- and download cable, RS232/MP ² I, 2m for VIPA CPUs 100V, 200V and 300V
950-oKB10	PC/AG programming cable RS232-MPI/PPI adapter, LCD, 3m
950-oKB20	PC/AG programming cable RS232-MPI adapter, external DC 24V power supply, 1,3m
950-oKB30	PC/AG programming cable USB-MPI adapter, 3m
950-oKB40	PC/AG programming cable TCP/IP-MPI/Profibus adapter, 3m
950-oKB50	PG/AG programming cable MPI cable with PG-/diagnosis port, 2,5 m
972-oDP01	EasyConn PB 90° - SubD plug 12MBit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable
972-oDP10	EasyConn PB 90° - SubD plug 12MBit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable, bus diagnosis via LEDs
972-oDP20	EasyConn PB 45° - SubD plug 12MBit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 45° outgoing cable, bus diagnosis via LEDs
972-oDP30	EasyConn PB 0° - SubD plug 12MBit/s, metal case, insulation piercing connection, switchable termination resistor, 45° outgoing cable, bus diagnosis via LEDs
972-9DP01	EasyConn PB 90° - SubD plug without LEDs ECO pack: 100 pieces
972-9DP10	EasyConn PB 90° - SubD plug with LEDs ECO pack: 100 pieces
972-9DP20	EasyConn PB 45° - SubD plug with LEDs ECO pack: 100 pieces
972-9DP30	EasyConn PB 0° - SubD plug with LEDs ECO pack: 100 pieces
905-6AA00	EasyStrip Stripping tool for Profibus cable

VIPA SYSTEM 400V + ACCESSORIES



Abb.: 470-2AA00

470-2AA00	CM 470 - Adaption capsule for acceptance from two one-tier or one double-tier S5-135U modules from Siemens, interruptable
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Supply and Delivery terms

GENERAL

The general supply and delivery terms for products and services of the Electrical Industry published by ZVEI Frankfurt am Main are valid in their latest version as well as the addendum on extended retention of title. Court of jurisdiction: Erlangen.

The prices are quoted in Euro (€) ex works, without insurance, freight and packaging. They do not include any V.A.T.-rates. Packaging can not be taken back.

VAT will be listed extra according to legal regulations and at the respectively valid rate.

MINIMUM ORDER VALUE

The minimum value for each order amounts to net € 150,-. Orders with a value less than € 150,- will be charged with a handling fee of € 20,- to cover costs.

PACKAGING CHARGES

up to 1.000€	10,00€
1.001€ - 2.500€	1,00% of net value of goods
2.501€ - 5.000€	0,85% of net value of goods
5.001€ - 7.500€	0,65% of net value of goods
7.501€ and higher	fixed 57,00€

VALIDITY

With the date this price list comes into force all former prices are no longer valid.

The price list may be subject to changes, especially as far as the values, dimension and weights are concerned, if nothing different is noted explicitly.

The goods will be invoiced at the date of dispatch.

MANUALS

When ordering modules, you will receive the corresponding documentation free of charge in PDF format on CD-ROM. If you wish to receive hard copies of manuals, please order them separately.

The latest versions of all our manuals can be found on our VIPA FTP server.

For further information please contact us:

Sales: +49 - (0) 9132 / 744 - 160

Homepage: <http://www.vipa.de>

FTP-Server: <ftp://ftp.vipa.de>

(Please consider that your FTP server should be set to passive mode.)

LEGEND

Not qualified for discount: %

delivery time upon request: *

MP²I = MPI + RS232 (all VIPA CPUs expect SPEED7)

MPI = all SPEED7 CPUs

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