

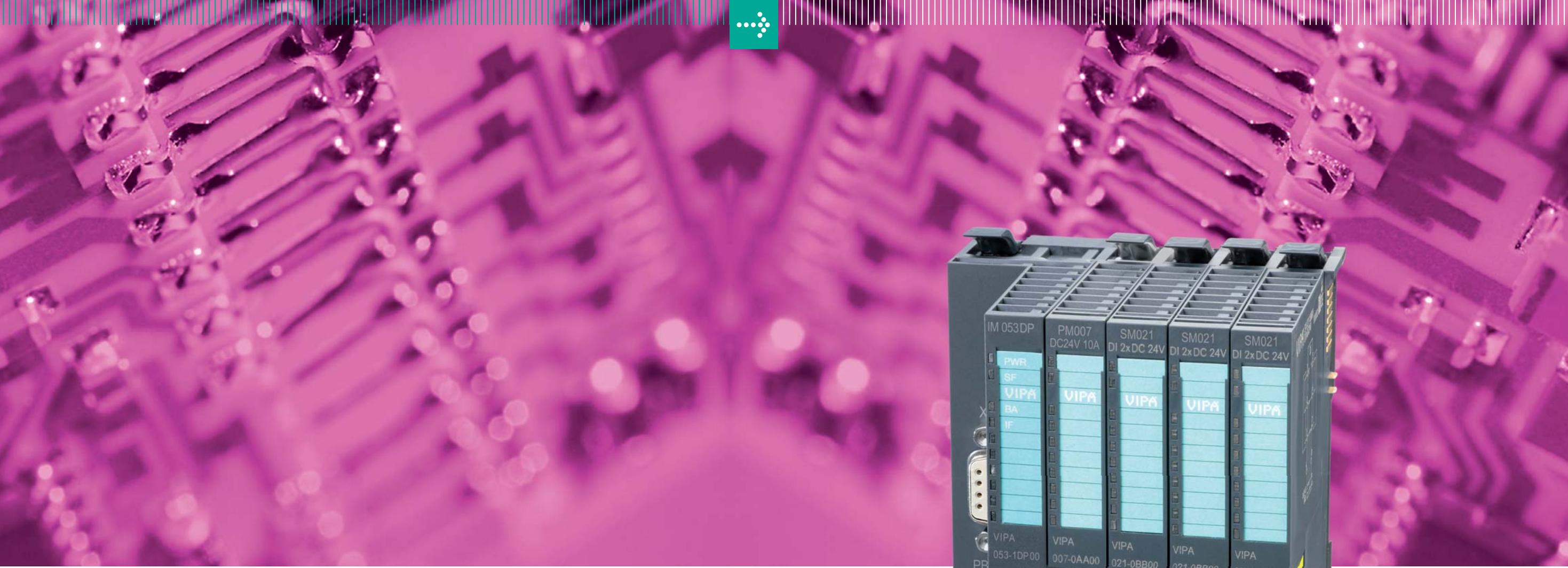


Technical Data

Article number	Description
Potential distribution modules	
001-1AA00	CM 001 - 8xDC24V clamps
001-1AA10	CM 001 - 8xDC0V clamps
001-1AA20	CM 001 - 4xDC24V, 4xDC0V clamps
Power modules	
007-1AB00	PM 007 - Power module – DC 24V, 10A, single supply
007-1AB10	PM 007 - Power module – DC 24V, 2, DC 24V +5V/3A, double supply
Signal modules	
Digital input	
021-1BB00	SM 021 - Digital input – DI 2xDC 24V
021-1BB10	SM 021 - Digital input – DI 2xDC 24V, parameterizable 2µs...4ms
021-1BB50	SM 021 - Digital input – DI 2xDC 24V, NPN
021-1BD00	SM 021 - Digital input – DI 4xDC 24V
021-1BD10	SM 021 - Digital input – DI 4xDC 24V, parameterizable 2µs...4ms
021-1BD40	SM 021 - Digital input – DI 4xDC 24V (4x2/3-wire)
021-1BD50	SM 021 - Digital input – DI 4xDC 24V, NPN
021-1BF00	SM 021 - Digital input – DI 8xDC 24V
021-1BF50	SM 021 - Digital input – DI 8xDC 24V, NPN
Digital output	
022-1BB00	SM 022 - Digital output – DO 2xDC 24V, 0,5A
022-1BB20	SM 022 - Digital output – DO 2xDC 24V, 2A
022-1BB50	SM 022 - Digital output – DO 2xDC 24V, 0,5A, NPN
022-1BB90	SM 022 - Digital output – DO 2xDC 24V, 0,5A, PWM
022-1BD00	SM 022 - Digital output – DO 4xDC 24V, 0,5A
022-1BD20	SM 022 - Digital output – DO 4xDC 24V, 2A
022-1BD50	SM 022 - Digital output – DO 4xDC 24V, 0,5A, NPN
022-1BF00	SM 022 - Digital output – DO 8xDC 24V, 0,5A
022-1BF50	SM 022 - Digital output – DO 8xDC 24V, 0,5A, NPN
022-1HB10	SM 022 - Digital output – DO 2xDC 30V/AC 230V, 3A, relays, potential separated per channel
022-1HD10	SM 022 - Digital output – DO 4xDC 30V/AC 230V, 2A, relays, potential separated per channel
Analog Input	
031-1BB30	SM 031 - Analog input – AI 2x12Bit, U
031-1BB40	SM 031 - Analog input – AI 2x12Bit, I
031-1BB90	SM 031 - Analog input – AI 2x16Bit
031-1BD30	SM 031 - Analog input – AI 4x12Bit, U
031-1BD40	SM 031 - Analog input – AI 4x12Bit, I
031-1BD80	SM 031 - Analog input – AI 4x16Bit, R, RTD (2-, 3- and 4-wire)
Analog output	
032-1BB30	SM 032 - Analog output – AO 2x12Bit, U
032-1BB40	SM 032 - Analog output – AO 2x12Bit, I
032-1BD30	SM 032 - Analog output – AO 4x12Bit, U
032-1BD40	SM 032 - Analog output – AO 4x12Bit, I
Communication processors	
040-1BA00	CP 040 - communication processor PIP RS232, SubD 9 pol., potentialgetrennt, ASCII fragmentiert, STX/ETX, 3964R mit RK512, Modbus-Master/Slave short/long
040-1CA00	CP 040 - communication processor PIP RS422/485, SubD 9 pol., potentialgetrennt, ASCII fragmentiert, STX/ETX, 3964R mit RK512, Modbus-Master/Slave short/long
Function modules	
Counter modules	
050-1BA00	FM 050 - Counter module – Counter 1x32Bit (AB), DC 24V, up to 400kHz, DO 1xDC 24V, 0,5A
050-1BA10	FM 050 - Counter module – Counter 1x32Bit (AB), DC 5V, up to 2MHz, DO 1xDC 24V, 0,5A
050-1BB00	FM 050 - Counter module – Counter 2x32Bit (AB), DC 24V, up to 400kHz
050-1BB30	FM 050 - Counter module ECO – Counter 2x32Bit (AB), DC 5V, up to 400kHz
SSI modules	
050-1BS00	FM 050S - SSI module – 1xSSI, RS422, 8...32 Bit, 12KHz...6MHz, timestamp, diagnosis, alarm
Interface modules	
053-1CA00	IM 053CAN - CANopen slave DC 24V, 1Mbit/s, address 1...127, up to 64 modules
053-1DN00	IM 053DN - DeviceNet slave DC 24V, 500kbit/s, DeviceNet, up to 64 modules
053-1DP00	IM 053DP - Profibus-DP slave DC 24V, 12Mbit/s, Adresse 1...125, DP-V0, DP-V1, configuration via GSD files from VIPA, up to 64 modules
053-1EC00	IM 053EC - EtherCAT slave DC 24V, Ethernet RJ45, 100MBit, address 1...65535, EtherCAT, up to 64 modules
053-1MT00	IM 053NET - Modbus-TCP slave DC 24V, Ethernet RJ45, 10/100Mbit/s, Modbus-TCP, up to 64 modules
053-1PN00	IM 053PN - PROFINET-IO slave DC 24V, Ethernet RJ45, 100MBit, PROFINET-IO, up to 64 modules



Technical Data



SMALL, SMART ...

The latest state-of-the art I/O system from VIPA

SLIO
a



VIPA wurde als
Top-Innovator
ausgezeichnet



awarded with the Jobstar
of European Metropolitan
Region Nuremberg



VIPA
art of automation



The latest decentral I/O system

There is an ever increasing demand for more compact and flexible automation solutions that offer optimised price-performance ratio. With the revolutionary development of the SLIO I/O system, Vipa is setting new standards in the automation sector.

Vipa's SLIO I/O system combines high functionality with an intelligent and practical mechanical concept, packaged in an extremely compact design. SLIO, a registered Vipa trademark, is a synonym for Slice-I/O.

With its very compact design, the system can be set-up "slice-by-slice" to meet exactly the requirements of the application.

The Interface Module (IM) for PROFIBUS-DP, CANopen, PROFINET, EtherCAT and Modbus all support up to 64 Electronic Modules (EM).

The Power Modules(PM), which contrast in colours to Signal Modules (SM) and Function Modules (FM), supply voltage to the Electronic Modules. Separate potential groups can be defined if required.

The Electronic Modules are connected to the Terminal Module (TM) with a secure plug-in mechanism.

The Terminal Modules comprises of a clamp, Electronic Module connection and mechanical backplane bus connection. In the event of maintenance or replacement, only the Electronic Module needs to be exchanged by simply removing it from the Terminal Module. Wiring and mounting of the Terminal module on the 35mm DIN rail remains unchanged.

The staircase-shaped cage clamps on the Terminal Module offer fast, clear and secure wiring.

With the integrated status LEDS and user friendly front labelling strip, identification and status monitoring of the I/O channels is quick and simple.

The new backplane bus system with a transmission rate of 48Mbit/s offers very short response times with a signal processing of > 20 μ s.

SLIO is one of the most powerful and cost-effective decentralised systems in the market.

■ SLIO – Expert system meets expert demand:

- Clever, user-friendly labelling
- Clear status monitoring and diagnosis
- Performance-orientated backplane bus
- Easy installation and maintenance
- Space and time-saving connection technology



SLIO System

■ Interface Module (IM)

The space-saving Interface-Module provides the interface between the process level and bus system. All control signals are transmitted to the Electronic Module through the internal backplane bus.

- Supports various fieldbus systems
- Exchangeable Power Module, easy-to-maintain
- Functional DIP-switch for address setting for PROFIBUS-DP and CANopen with transparent cover
- MAC Address in clear text on the front
- Potential separation between fieldbus and input/output level
- Up to 64 Signal and Function Modules per Interface Module



SLIO Features

■ Clever, user-friendly labelling

- Status LEDs with direct allocation on the labelling strip
- Terminal assignment and connection diagrams on each module
- In the event of module exchange the item designation remains unchanged
- Blank strips for individual labelling of modules



■ Clear status monitoring and diagnosis

- Clear indication of diagnosis and status
- Clear allocation and indication of I/O status
- Secure and time-saving installation and maintenance due to terminal assignment on the module



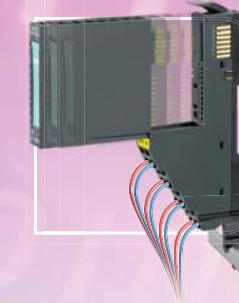
■ Performance-orientated backplane bus

- One Terminal Module for all Signal and Function Modules
- Transmission rate 48Mbit/s
- Fast response time of > 20 μ s
- Detailed diagnosis of each Electronic Module in the system



■ Easy installation and maintenance

- Unique two stage concept consisting of Terminal Module and Electronic Module, allowing simple and fast maintenance
- Easy mounting due to plug-in mechanism
- Click-connection for fast mounting and easy shielding
- Failure protection due to automatic identification of Electronic Modules



■ Space and time-saving connection technology

- Space-saving staircase-shaped wiring with cage clamps
- Quick pre-wiring due to separate installation level
- Simple exchange of electronic modules due to unique wiring concept
- High modularity due to 2-, 4- and 8-channel modules

