SEC I/O

DIN-Rail I/O Device

Datasheet





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Technical Data

General

No rotating parts

Processor

400 MHz CPU

Dynamic Memory

64 MB SDRAM (128 MB possible on request)

Network Interface

• 2 x RJ45 for 10/100 Base-T

• Protection: 1.5 KV magnetic isolation

Serial Ports

• 2 x RJ45 for RS-232

2 x RJ45 configurable as RS-232 or RS-485 (terminal block)

Note: the RS-232 interfaces are not fully assigned (see user manual)

Protection: 15 KV ESD for RS-232, 2500 Vrms isolation and 15 KV ESD for RS-485

Baud rate: up to 921.6 Kbps

• Parity: none, even, odd, mark, space

Data bits: 5,6,7,8Stop bit: 1, 1.5, 2 bits

Flow control: RTS/CTS, XON/XOFF, none

USB Ports

• 2 x USB 2.0 compliant, supports low speed (1.5 Mbps) and full speed (12 Mbps) data rate

Diagnostic LEDs

- Power
- Software state (CPU-LED)
- Link and activity for LAN interface
- Transmit and receive LEDs for the RS-232 interfaces
- DI/DO status LEDs (only variant 1)

Mass Storage

- 128 MB Flash
- 1 x MicroSD slot

Additional Functions

- Battery buffered real time clock (RTC)
- Buzzer
- Watchdog
- Reset

Power Input / Power Consumption

9 - 40 V DC / 4 W max.
 typical power consumption 60 mA (with 24 V DC without USB)

Standards

• CE

EN55022 Class A:2006+A1:2007 EN55024:1998+A1:2001+A2:2003

IEC 61000-4-2:2008

IEC 61000-4-3:2006+A1:2008+A2:2010

IEC 61000-4-4:2004+A1:2010

IEC 61000-4-5:2005

IEC 61000-4-6:2008

IEC 61000-4-8:2009

FCC part 15 subpart B Class A

Housing

- Steel chassis, including clip for mounting on a 35 mm DIN-Rail
- Protection class IP30

Dimension (without clip)

• 65 x 130 x 102.5 mm (W/H/D)

Weight

0,7 kg

Operating Environment

Operating temperature: 0 °C – 70 °C

• Relative humidity: 5 % to 95 % non-condensing

	VARIANT 1 (8xDI/8xDO)	VARIANT 2 (4xDI/4xDO/4xAI unipolar/bipolar)	VARIANT 3 (4xDI/4xDO/4xAl current)
Isolated Digital Input			
	 No. of channels: 8 Logical high: 5 ~ 24 V DC Logical low: 0 ~ 1.5 V DC Input resistance: 1.2k ohms@0.5W Response time: 20 us Opto-isolation: 2500 V RMS 	 No. of channels: 4 Logical high: 5 ~ 24 V DC Logical low: 0 ~ 1.5 V DC Input resistance: 1.2k ohms@0.5W Response time: 20 us Opto-isolation: 2500 V RMS 	 No. of channels: 4 Logical high: 5 ~ 24 V DC Logical low: 0 ~ 1.5 V DC Input resistance: 1.2k ohms@0.5W Response time: 20 us Opto-isolation: 2500 V RMS
Digital Output	 No. of channels: 8 Source voltage (VDD): 5~50 V DC Output current: 500 mA max. Isolation: 2500 V RMS 	 No. of channels: 4 Source voltage (VDD): 5~50 V DC Output current: 500 mA max. Isolation: 2500 V RMS 	 No. of channels: 4 Source voltage (VDD): 5~50 V DC Output current: 500 mA max. Isolation: 2500 V RMS
Analog Inputs	-	 No. of channels: 4 (multiplexed, differential) Sampling speed: 10 readings per second Input range (selected by software): – 0~150mV, 0~500mV, +/- 150mV, +/- 500mV – 0~1V, 0~5V, 0~10V, +/-1V, +/-5V, +/-10V Effective resolution: 16-bit Voltage input mode: differential, 100db CMR Voltage input impedance: 20 M Ω Isolation protection: 1500 V RMS 	 No. of channels: 4 (multiplexed, differential) Sampling speed: 10 readings per second Input range: 0~20mA Effective resolution: 16-bit Current input impedance: 120 Ω Isolation protection: 1500 V RMS

Note: Differences to the delivered type are possible.