SEC3PB

Datasheet





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Processor / Memory / Mass Storage

CPU ARM Cortex-A8 1 GHz

RAM 256 MB DDR3L Flash 512 MB SLC NAND

Power Supply

Voltage $U_{PWR1/2}$: 12 / 24 / 48 V DC (9 – 60 V DC) Power consumption Max. 10 W (typ. 4 W without USB)

Line cross-section 0.129 – 3.31 mm² (AWG 26...12, solid or stranded wire)

Features Redundant power feed with fault contact "FAIL"

The ground (GND) is galvanically connected directly to the

protective earth (PE)

Interfaces

Ethernet interface 2x RJ45 10/100BASE-T

Serial interface 2x RJ45 RS232 / RS422 / RS485

Baud Rate: 300 – 115200 Baud

PROFIBUS interface DB9 female

(DPV0, RS485 9600 to 12M Baud, passive)

USB interface 1 x USB 2.0 up to 480 Mbps "high speed"

State relay "FAIL" Maximum voltage: 30 V AC/DC

Maximum current: 2 A

Diagnostics (Status LEDs)

PWR Power LED

USR LED freely configurable by software

CPU LED to show different software conditions
COM1 / COM2 Send and receive LED for serial interfaces
ETH0 / ETH1 Link and activity LED for Ethernet interfaces

PROFIBUS RX Receive LED

PROFIBUS PWR Power LED for PROFIBUS interface

PROFIBUS OP Operation LED

Additional Functions and Features

Battery buffered real time clock Supported by a lithium battery (CR2032)

State relay "FAIL" Changeover switch controlled by software

Hardware watchdog

Temperature monitoring

Power supply monitoring

Overvoltage protection The power supply and all interfaces are ESD, surge, and

burst protected (see EMC)

Housing

Body material Steel chassis

Mounting 35 mm DIN-Rail

IP Code IP30 Rotating parts None

Dimensions (W x H x D) approx. 65 mm x 124 mm x 129 mm

Weight approx.0.6 kg

Operating Environment

Operating temperature -20 °C to 60 °C Storage temperature -40 °C to 85 °C

Relative humidity 5% to 95% not-condensing

Approval, Standards and Conformity

Approval CE (Industrial)
Standards EN 55032: 2015

EN 61000-6-2: 2005

Conformity RoHS

REACH WEEE

Electromagnetic Compatibility (EMC) – Emission Requirements

EN 55016-2-1:2014

Conducted emission on power supply lines in the frequency range 150 kHz - 30 MHz

EN 55016-2-1:2014

Conducted emission on telecommunication lines in the frequency range 150 kHz - 30 MHz

EN 55016-2-3:2010 + A1:2010 + Radiated emission in the frequency range 30 MHz - 1 GHz

EN 55016-2-3:2010 + A1:2010 + A1:2010 + AC:2013 + A2:2014

Radiated emission in the frequency range 1 GHz - 6 GHz

Electromagnetic Compatibility (EMC) – Immunity Requirements

EN 61000-4-2: 2009	Electrostatic discharge (ESD) - Contact discharge ± 6 kV - Air discharge ± 8 kV
EN 61000-4-3: 2006 + A1:2008 + A2:2010	Immunity to RF electromagnetic fields in the frequency range 80 – 2700 MHz, Test level 10 V/m
EN 61000-4-4: 2012	Immunity to fast transients (Burst) - DC power port ± 4 kV - Signal lines ± 2 kV
EN 61000-4-5: 2014	Immunity to surges on power supply lines (Surge) - DC power port: line <-> ground ± 2 kV - DC power port: line <-> line ± 2 kV
EN 61000-4-5: 2014	Immunity to surges on shielded signal lines (Surge) - Shielded lines $\pm 2 \text{ kV}$
EN 61000-4-6: 2014	Immunity to conducted interference induced by radio-frequency fields in the frequency range 150 kHz – 80 MHz, Test level 10 V