

SEC3M

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 mm ² (AWG 26...12, solid or stranded wire)
Features	Redundant power feed with fault contact

Interfaces

Ethernet interface	2x RJ45 10/100BASE-T
Serial interface	2x RJ45 RS232 / RS422 / RS485 Baud Rate: 300 – 115200 Baud
USB interface	1 x USB 2.0 up to 480 Mbps "high speed"

Cellular Modem

SIM card	Mini SIM 2FF slot (SIM card not included)
Antenna interface	2x SMA female antenna connector for LTE-GSM antennas with flexible joint (Ø 8 mm, 2 dBi, 698-960 MHz / 1710-2700 MHz)
Frequency bands LTE modem	LTE: 12-band FDD-LTE 700, 800, 850, 900, 1700/2100 AWS, 1800, 1900, 2100 and 2600 MHz 3G UMTS/HSPA+: 7-band UMTS (WCDMA/FDD) 800, 850, 900, 1700/2100 AWS, 1800, 1900 and 2100 MHz 2G GSM/GPRS/EDGE: Quad-band GSM 850, 900, 1800 and 1900 MHz
Data rates LTE modem	LTE: 3GPP Release 9, UE Cat. 1 DL: max. 10.2 Mbps, UL: max. 5.2 Mbps HSPA+: 3GPP Release 8, HSDPA Cat. 8 / HSUPA Cat. 6 DL: max. 7.2 Mbps, UL: max. 5.76 Mbps UMTS: 3GPP Release 4 DL: max. 384 kbps, UL: max. 384 kbps (PS) DL: max. 64 kbps, UL: max. 64 kbps (CS)

Diagnostics (Status LEDs)

PWR	Power LED
USR	LED freely configurable by software
CPU	LED to show different software conditions
CELLULAR	LED to indicate the connection status of the cellular network
COM1 / COM2	Send and receive LED for serial interfaces
ETH0 / ETH1	Link and activity LED for Ethernet interfaces

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 132 mm
Weight	approx. 0.6 kg (without antennas)

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	
Conformity	RoHS REACH WEEE