

Modem - PSI-GPRS/GSM-MODEM/RS232-QB - 2313106

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Industrial GPRS/GSM modem for mounting on EN DIN rails. GSM and GPRS. 850 + 900 + 1800 + 1900 MHz. Serial V.24 (RS-232) interface. TCP/IP stack. Alarm input and output. 24 V DC supply voltage.

Product Features

- Fixed latency
- High electromagnetic compatibility
- Can be used worldwide
- Can be used regardless of controller manufacturer
- Firewall
- One switching output on backplane, can be activated via SMS with password protection
- Encryption of SIM card PINs
- Connection establishment with password protection
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- IPT-compatible
- Integrated TCP/IP stack for integrating devices without a TCP/IP stack into a network
- Data rates of up to 53.6 kbps
- Connection establishment via data phone number (CSD)
- Client/server functionality
- Connection establishment via IP addresses



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	193.0 g
Custom tariff number	85176200
Country of origin	Germany

Modem - PSI-GPRS/GSM-MODEM/RS232-QB - 2313106

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	22.5 mm
Height	99 mm
Depth	118.6 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Altitude	5000 m (For restrictions see manufacturer's declaration)
	2000 m (With UL approval)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

General

Electrical isolation	VCC // RS-232 // GSM
Test voltage data interfaces	1500 V
Test voltage data interface/power supply	1.5 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with R&TTE Directive 1999/5/EC (valid until June 12, 2016) or 2014/53/EU (valid from June 13, 2016)
Noise emission	EN 55022
Net weight	100 g
Housing material	PA V0
Color	green
Degree of pollution	2
Conformance	CE-compliant
UL, USA / Canada	cULus listed UL 508
	Class I, Zone 2, AEx nA IIC T4
	Class I, Zone 2, Ex nA IIC T4 Gc X

Power supply

Nominal supply voltage	24 V DC $\pm 5\%$ (as an alternative or redundant, via backplane bus contact and system current supply)
Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Typical current consumption	< 350 mA (24 V DC)
	< 80 mA (stand by)

Serial interface

Interface 1	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
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Technical data

Serial interface

Connection method	D-SUB-9 plug
File format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Transmission length	15 m
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS

Radio interface

Interface description	GSM / GPRS
Frequency	850 MHz (2 W (EGSM))
	900 MHz (2 W (EGSM))
	1800 MHz (1 W (EGSM))
	1900 MHz (1 W (EGSM))
Data rate	≤ 85.6 kbps
Antenna	50 Ω impedance SMA antenna socket
SIM interface 1	1.8 volt, 3 volt
GPRS	Class 10, Class B
	CS1 ... CS4
GSM	CSD 9.6/14.4 kbps
Network function	4 time slots for receiving data, 2 time slot for transmitting data. The PIN is saved in the modem. After a voltage interruption, there is automatic redialing into the network Integrated TCP/IP Stack, independent connection establishment.
Network check	LED to show data signal quality

Digital outputs

Output name	Digital output
Number of outputs	1
Voltage output signal	10 V DC ... 30 V DC
Current output signal	≤ 80 mA (24 V)
Connection method	DIN rail bus connectors

Digital inputs

Description of the input	Digital input
Number of inputs	2
Voltage input signal	9 V DC ... 60 V DC
Current input signal	5 mA

Standards and Regulations

Electromagnetic compatibility	Conformance with R&TTE Directive 1999/5/EC (valid until June 12, 2016) or 2014/53/EU (valid from June 13, 2016)
Type of test	Free fall in acc. with IEC 60068-2-32

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Standards and Regulations

Test result	1 m
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g in each space direction
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Operation: 15g, 11 ms period, half-sine shock pulse
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Storage: 30g, 11 ms period, half-sine shock pulse
Noise emission	EN 55022
Noise immunity	EN 61000-6-2:2005
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
Conformance	CE-compliant
UL, USA / Canada	cULus listed UL 508
	Class I, Zone 2, AEx nA IIC T4
	Class I, Zone 2, Ex nA IIC T4 Gc X

Classifications

eCl@ss

eCl@ss 4.0	27230207
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27230207
eCl@ss 6.0	27230207
eCl@ss 7.0	27230207
eCl@ss 8.0	19060590
eCl@ss 9.0	19060590

ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000740

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008

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Classifications

UNSPSC

UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Listed 

cUL Listed 

EAC

EAC

cULus Listed 

Accessories

Accessories

Modem - PSI-GPRS/GSM-MODEM/RS232-QB - 2313106

Accessories

Adapter

Adapter - PSM-AD-D9-NULLMODEM - 2708753



V.24 (RS-232) zero modem connector

Adapter cable

Data cable - PSM-KA9SUB9/BB/2METER - 2799474



RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1

Data cable - PSM-KA9SUB9/BB/0,5METER - 2708520



RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1

Adapter cable - PSM-KAD-IL RS232/9SUB/B/0,8M - 2319200



Adapter cable to connect the IB IL RS232 and IB IL RS232-PRO Inline communication terminals to the interface converter, e.g. modem, Com server, Bluetooth or fiber optics.

Antenna

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Accessories

Antenna - PSI-GSM/UMTS-QB-ANT - 2313371



GSM UMTS antenna, with omnidirectional characteristic, 2 m antenna cable with SMA round connector

Antenna - PSI-GSM-STUB-ANT - 2313342



Mobile communication antenna for direct mounting on the device, SMA (male) antenna connector with articulated joint. The antenna is suitable for installation in plastic control cabinets not visible from the outside.

Antenna - TC ANT MOBILE WALL 5M - 2702273



Multiband mobile phone antenna with mounting bracket for outdoor installation. 5 m antenna cable with SMA round plug

Arrester test system

Cable - CM-KBL-RS232/USB - 2881078



Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.

Coaxial cable

Antenna cable - PSI-CAB-GSM/UMTS- 5M - 2900980



GSM/UMTS antenna cable, 5 m long; SMA (male) -> SMA (female), 50 Ohm impedance

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Accessories

Antenna cable - PSI-CAB-GSM/UMTS-10M - 2900981



GSM/UMTS antenna cable, 10 m long; SMA (male) -> SMA (female), 50 Ohm impedance

DIN rail connector

DIN rail connector - ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437



Plug component, Nominal current: 8 A, Nominal current (Ex): 8 A, Nominal voltage (Ex): 125 V, Number of positions: 5, Pitch: 3.81 mm, Articles with gold-plated contacts, bus connectors for connecting with electronic housings

Power supply

Power supply unit - MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983



Primary-switched MINI POWER supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A

Surge protection for transceiver systems

Surge protection device - CSMA-LAMBDA/4-2.0-BS-SET - 2800491

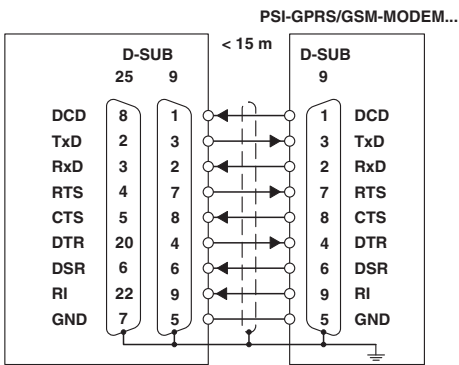


Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces. Connection: Male/female SMA connectors.

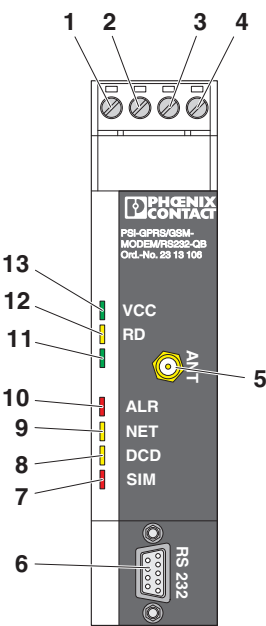
Drawings

Modem - PSI-GPRS/GSM-MODEM/RS232-QB - 2313106

Connection diagram

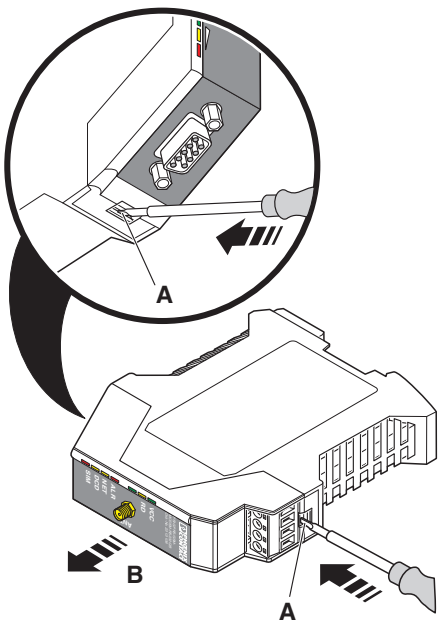


Schematic diagram

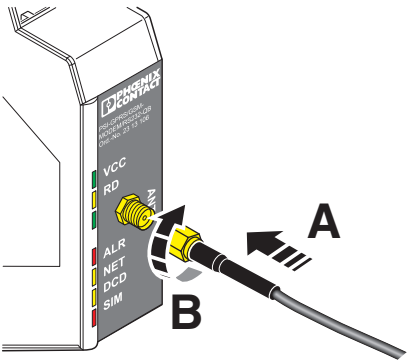


Front view

Schematic diagram



Schematic diagram

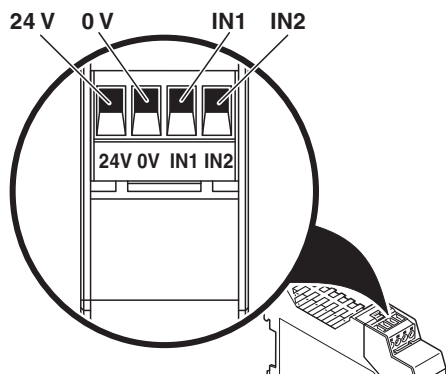


Connect the antenna

Opening the housing

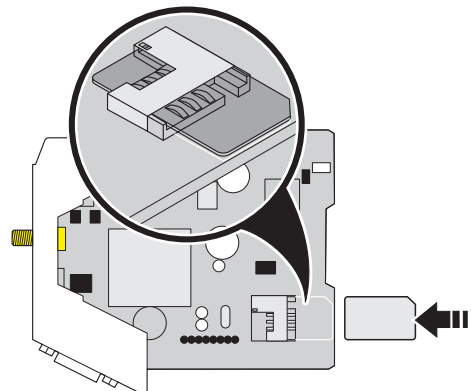
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Schematic diagram



Device connections

Schematic diagram



Insert the SIM card

Mouser Electronics

Authorized Distributor

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