

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.

Why buy this product

- 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 STK
GTIN	 4 046356 166034
GTIN	4046356166034
Weight per Piece (excluding packing)	193.000 g
Custom tariff number	85176200

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Country of origin	Germany
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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
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
Type of test	Free fall in acc. with IEC 60068-2-32
Test result	1 m

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Standards and Regulations

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 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	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

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Approvals

Approvals

Approvals

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

Ex Approvals


UL Listed / cUL Listed / cULus Listed


Approval details

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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC			EAC-Zulassung
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EAC			RU *- DE.A*30.B.01735
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cULus Listed			
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