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Mobile phone network/
serial quad band modem for
GPRS and GSM

Send V.24 (RS-232) data all around the world via mobile phone network

Mobile phone network:
– GSM mobile phone networks:
  850, 900, 1800, and 1900 MHz
– For worldwide use

GPRS TCP/IP connection:
– Connection established via IP addresses
– Client/server functionality
– IPT compatible
– Integrated TCP/IP stack for TCP and UDP connections
– Data rates of up to 53.6 kbps
– Security:
  - Firewall

GSM dial-up connection:
– Connection established via data phone number (CSD)
– Security:
  - Connection established with password protection
  - Selective call acceptance
  - Callback function

V.24 (RS-232) interface:
– Freely parameterizable (baud rate, data bits, parity, stop bit, flow control)

Digital I/Os:
– Two digital switching inputs: sending of freely configurable text messages (SMS, FAX, e-mail)
– One switching output on the backplane

Additional features:
– Encryption of SIM card PINs
– Can be used regardless of controller manufacturer
– High electromagnetic compatibility
– Electrical isolation
– NEW: convenient configuration software
– Configuration via SMS

Notes:
1) EMC: Class A product, see page 553

Quad-band modem for GPRS and GSM with RS-232 interface, integrated TCP/IP stack and 2 alarm inputs

Technical data	
Supply	
Supply voltage	10 V DC ... 30 V DC (via plug-in COMBICON screw terminal block)
Supply voltage	24 V DC ±5% (as an alternative or redundant, via backplane bus contact and system current supply)
Nominal current consumption	< 350 mA (24 V DC)
Stand-by current consumption	< 80 mA
V.24 (RS-232) interface	
Connection method	D-SUB-9 plug
Data format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS
Transmission speed	Automatic data rate detection (default) or fixed setting to 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps, can be set via software
Mobile phone network	
Frequencies	850 MHz (2 W (EGSM)) / 900 MHz (2 W (EGSM)) / 1800 MHz (1 W (EGSM)) / 1900 MHz (1 W (EGSM))
SIM interface	1.8 volt, 3 volt
GPRS compatibility	Class 10, Class B
Network function	4 time slots for receiving data, 2 time slots 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
Antenna connection	50 Ω impedance SMA antenna socket
Input/output	
Switching input	2 x U$_{Nom}$ 24 V DC / 5 mA, input range 9...60 V DC
Switching output	On the backplane (10 V DC ... 30 V DC / 80 mA at 24 V DC)
General data	
Ambient temperature (operation)	-25 °C ... 60 °C
Electrical isolation	(VCC // V.24 (RS-232) // GSM)
Test voltage	1.5 kV
Approvals for countries	EU, USA, Canada, other countries in preparation
Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
Dimensions W / H / D	22.5 mm / 99 mm / 118.6 mm

Ordering data			
Description		Type	Order No.	Pcs. / Pkt.
Industrial GPRS/GSM modem with RS-232 interface, scope of supply: modem, CD with configuration software and user manual		PSI-GPRS/GSM-MODEM/RS232-QB¹)	2313106	1

Accessories			
Multi-band antenna for UMTS and quad band GSM, with omnidirectional characteristic, 2 m antenna cable with SMA round connector, degree of protection: IP65, dimensions: 76 x 20 mm	PSI-GSM/UMTS-QB-ANT	2313371	1
System power supply unit, primary-switched	MINI-SYS-PS-100-240AC/24DC/1.5	2866983	1
DIN rail connector	ME 22,5 TBUS 1,5/ 5-ST-3,81 GN	2707437	50
RS-232-D-SUB cable, length: 2 m	PSM-KA9SUB9/BB/2METER	2799474	1
RS-232-D-SUB cable, length: 0.5 m	PSM-KA9SUB9/BB/0,5METER	2708520	1

Mobile phone network/
mobile phone routers
with firewall and VPN

Mobile phone routers support high-performance remote connections to remote Ethernet networks. These connections can be used to transmit sensitive data securely over mobile phone networks.

The integrated firewall and VPN (Virtual Private Network) support reliably protect the application against unauthorized access. The Ethernet connection can be used for system-wide communication between all connected components in the network, such as drives, controllers, control panels or visualization PCs.

Mobile TCP/IP connection:
– Connection established via IP addresses
– GPRS/EDGE data rates of up to 210 kbps
– UMTS/HSPA data rates of up to 7.2 Mbps
– Security:
  - Firewall
  - NAT table

VPN (virtual private network):
– IPsec and OpenVPN support
– Up to three VPN tunnels simultaneously
– Authentication with X.509 certificates and via pre-shared key (PSK)
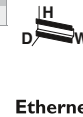– VPN remote start via call or SMS
– 1:1 NAT in the VPN

Digital I/Os:
– 6 digital switching inputs: Sending of freely configurable text messages (SMS, FAX, e-mail) and starting of user-defined functions
– Four switching outputs: can be activated via SMS and Ethernet and for GSM and connection diagnostics

Additional features:
– Configuration via web-based management
– Upload and download configuration
– Configurable daily restart
– Continuous connection monitoring
– High electromagnetic compatibility
– Electrical isolation

Notes:
1) EMC: Class A product, see page 553

Ethernet

GPRS/EDGE and UMTS/HSPA mobile phone routers for worldwide network access

Technical data	
Supply	
Supply voltage	10 V DC ... 30 V DC (via plug-in COMBICON screw terminal block)
Nominal current consumption	< 200 mA (24 V DC)
Stand-by current consumption	< 90 mA (stand by)
Ethernet interface	
Connection method	RJ45 socket, shielded
Transmission speed	10/100 Mbps, autonegotiation
Transmission length	100 m (shielded twisted pair)
Functions	
Management	Web-based management, SNMP
Mobile phone network	
Frequencies	850 MHz (2 W (EGSM)) / 900 MHz (2 W (EGSM)) / 1800 MHz (1 W (EGSM)) / 1900 MHz (1 W (EGSM)) / 850 MHz (0.25 W (UMTS)) / 1900 MHz (0.25 W (UMTS)) / 2100 MHz (0.25 W (UMTS))
SIM interface	1.8 volt, 3 volt
GPRS compatibility	Class 12, Class B
Network check	LED bar graph to display receive quality
Antenna connection	50 Ω impedance SMA antenna socket
Input/output	
Switching input	6 x U$_{Nom}$, input range 10 V DC ... 30 V DC/5 mA
Switching output	4 x U$_{Nom}$, input range 10 V DC ... 30 V DC/50 mA, short-circuit-proof
General data	
Ambient temperature (operation)	-25 °C ... 65 °C (not aligned)
Electrical isolation	(VCC // UMTS // Ethernet // PE)
Test voltage	1 kV (50 Hz, 1 min.)
Approvals for countries	EU, USA, Canada, other countries in preparation
Electromagnetic compatibility	Conformance with R&TTE directive 1999/5/EC
Dimensions W / H / D	45 mm / 99 mm / 114.5 mm

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Industrial mobile phone router, with integrated firewall and VPN, 6 digital inputs and 4 outputs, and continuous connection monitoring			
- For UMTS/HSPA with GPRS/EDGE fallback and dual SIM for backup provider	PSI-MODEM-3G/ROUTER	2314008	1
- For GPRS/EDGE quad band, 35 mm housing width	PSI-MODEM-GSM/ETH¹)	2313355	1

Accessories			
Multi-band antenna for UMTS and quad band GSM, with omnidirectional characteristic, 2 m antenna cable with SMA round connector, degree of protection: IP65, dimensions: 76 x 20 mm	PSI-GSM/UMTS-QB-ANT	2313371	1
Multiband antenna for external panel and external mast mounting for UMTS and quad-band GSM, with omnidirectional characteristics, 5 m antenna cable with SMA round connector	PSI-GSM/UMTS-ANT-OMNI-2-5	2900982	1
Antenna extension cable for UMTS and quad-band GSM, 5 m long, antenna cable with SMA connector and SMA coupling	PSI-CAB-GSM/UMTS- 5M	2900980	1
Antenna extension cable for UMTS and quad-band GSM, 10 m long, antenna cable with SMA connector and SMA coupling	PSI-CAB-GSM/UMTS-10M	2900981	1

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- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, click on the green button.

Product	Code	Reference	Product link
GSM/UMTS omnidirectional antenna, 2 dBi gain, 5 m antenna cable with SMA circular connector	2900982	PSI-GSM/UMTS-ANT-OMNI-2-5	Buy on EAN