

PSI-MODEM-3G-US/ROUTER - Router



2903394

<https://www.phoenixcontact.com/us/products/2903394>

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Industrial UMTS/GSM router for the US market (850, 900, 1800, 1900, 1700 ... 2100 MHz) with Ethernet interface. Firewall, NAT, and IPsec VPN support. SMA-F antenna socket. SMS messaging. 6 digital inputs, 4 digital outputs. Configuration via web-based management.

Your advantages

- Configuration via web-based management
- Up to 3 VPN tunnels simultaneously
- Starting of VPN via call
- High electromagnetic compatibility
- Starting of VPN via SMS
- Authentication with X.509 certificates
- Connection monitoring
- Encryption of both SIM card PINs
- Firewall
- NAT table
- 10/100 Mbps
- Autocrossing
- UMTS mobile phone network: 850, 1900, and 2100 MHz
- GSM mobile phone network: 850, 900, 1800, and 1900 MHz
- Connection establishment via IP addresses

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2903394 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN25 |
| Product key | DNC422 |
| GTIN | 4046356734516 |
| Weight per piece (including packing) | 332 g |
| Weight per piece (excluding packing) | 332 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------|-----------------|
| Product type | Cellular router |
|--------------|-----------------|

Electrical properties

| | |
|---|-------------------------------|
| Electrical isolation | VCC // UMTS // Ethernet // PE |
| Maximum power dissipation for nominal condition | 4 W |
| Mains type | Cellular communication |
| Test voltage data interface/data interface | 1 kV (50 Hz, 1 min.) |
| Test voltage data interface/power supply | 1 kV (50 Hz, 1 min.) |

Supply

| | |
|-----------------------------|---|
| Supply voltage range | 10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Typical current consumption | < 200 mA (24 V DC) < 90 mA |
| Max. current consumption | 800 mA (At 10 V DC (incl. 4x 50 mA for the outputs)) |

Function

| | |
|------------|----------------------------|
| Management | Web-based management, SNMP |
|------------|----------------------------|

Input data

Digital

| | |
|--------------------------|---------------------|
| Description of the input | Digital input |
| Number of inputs | 6 |
| Voltage input signal | 10 V DC ... 30 V DC |
| Current input signal | 5 mA |

Output data

Signal

| | |
|-----------------------|--|
| Output name | Digital output |
| Number of outputs | 4 |
| Voltage output signal | 10 V DC ... 30 V DC (depending on the operating voltage) |
| Current output signal | ≤ 50 mA (Short-circuit-proof) |

Connection data

Supply

| | |
|-------------------|---------------------|
| Tightening torque | 0.56 Nm ... 0.79 Nm |
|-------------------|---------------------|

Interfaces

| | |
|--------|----------|
| Signal | Ethernet |
|--------|----------|

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

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| | |
|---------------------------|---------------------------------------|
| Serial transmission speed | 10/100 Mbps, auto negotiation |
| Connection method | RJ45 jack, shielded |
| Transmission length | 100 m (shielded twisted pair) |
| Protocols supported | TCP/IP, UDP/IP, FTP, HTTP |
| Auxiliary protocols | ARP, DHCP, PING (ICMP), SNMP V1, SMTP |

Wireless

| | |
|-----------------------|---|
| Interface description | GSM / GPRS / EDGE |
| Frequency | 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)) |
| Frequency range | 1700 MHz ... 2100 MHz (AWS 0.25 W (UMTS)) |
| Transmission power | 0.25 W |
| Data rate | ≤ 7.2 Mbps (HSDPA) |
| | ≤ 5.7 Mbps (HSUPA) |
| Antenna | 50 Ω impedance SMA antenna socket |
| SIM Interface | 1.8 volt, 3 volt |
| | 1.8 volt, 3 volt |
| GPRS | Class 12, Class B |
| | CS1 ... CS4 |
| EDGE | Multislot Class 10 |
| UMTS | HSPA 3GPP R6 |
| Network function | 4 time slots for receiving data, 4 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, firewall and VPN support, independent connection establishment. |
| Network check | LED bar graph to display receive quality |

Dimensions

| | |
|--------|----------|
| Width | 45 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Material specifications

| | |
|--------------------|------------------|
| Color (Housing) | green (RAL 6021) |
| Material (Housing) | PA 6.6-FR |

Mechanical tests

| | |
|--|---|
| Free fall in acc. with IEC 60068-2-32 | : 1 m |
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : 5g, 10...150 Hz, 2.5 h, in XYZ direction |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : Operation: 15g, 11 ms period, half-sine shock pulse |

: Storage: 30g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 65 °C (not aligned) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| Permissible humidity (operation) | 30 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 30 % ... 95 % (non-condensing) |

Approvals

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

EMC data

| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with R&TTE directive 1999/5/EC |
| Noise immunity | EN 61000-6-2 |

Electrostatic discharge

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

Electrostatic discharge

| | |
|-------------------|-----------------------|
| Contact discharge | ± 4 kV (Test Level 3) |
| Discharge in air | ± 8 kV (Test Level 3) |
| Comments | Criterion B |

Electromagnetic HF field

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

Electromagnetic HF field

| | |
|-----------------|---------------------------------|
| Frequency range | 80 MHz ... 3 GHz (Test Level 3) |
| Field intensity | 10 V/m |

Fast transients (burst)

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

Fast transients (burst)

| | |
|----------|-------------------------------|
| Input | ± 1 kV (Test Level 3) |
| Signal | ± 1 kV (Ethernet and antenna) |
| Comments | Criterion B |

Surge current load (surge)

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

Surge current load (surge)

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| | |
|----------|----------------------------------|
| Input | ± 1 kV (symmetrical) |
| | ± 2 kV (asymmetrical) |
| Signal | ± 1 kV (Data line, asymmetrical) |
| | ± 1 kV (Antenna) |
| Comments | Criterion B |

Conducted interference

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

Conducted interference

| | |
|-----------------|---------------------|
| Frequency range | 0.15 MHz ... 80 MHz |
| Voltage | 10 V |

Emitted interference

| | |
|--|--|
| Radio interference voltage in acc. with EN 55011 | Class B, area of application: Industry and residential |
| Emitted radio interference in acc. with EN 55011 | Class B, area of application: Industry and residential |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|
|-------------------------------------|----------------------------|

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