CLOUD CLIENT 2002T-WLAN - Router

1234360

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Industrial VPN gateway for mGuard Secure Cloud, IPsec communication via WLAN client 802.11a/b/g/n, 150 Mbps, 2.4 GHz + 5 GHz, 2-port switch, antenna connections: 2 RSMA WLAN, 4 DI, 2 DO

Your advantages

- Virtual dedicated line to connect networks via cellular network
- Configuration via web-based management or microSD card
- Two local Ethernet connections
- Switchable energy-saving mode
- Integrated logbook
- Extended temperature range of -40 °C … +70 °C
- Four digital inputs
- Two digital outputs

Commercial data

Item number	1234360
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN25
Product key	DNC422
GTIN	4063151338237
Weight per piece (including packing)	320.3 g
Weight per piece (excluding packing)	320.3 g
Customs tariff number	85176200

Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Remote maintenance gateway
Application	Ethernet
MTTF	384 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	180 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	64 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Security functions

Number of VPN tunnels	1
Authentication	X.509v3, PSK
Data integrity	IPsec: MD5, SHA-1, SHA-256, SHA-512, AESXCBC
Filtering	Interface and protocols only
Firewall rules	Stateful inspection firewall
Internet Protocol Security (IPsec) mode	ESP tunnel
Encryption methods	IPsec: 3DES, AES, Blowfish

Electrical properties

Electrical isolation	VCC // Ethernet
Maximum power dissipation for nominal condition	4.32 W

Supply

Supply voltage range	10 V DC ... 30 V DC (Via pluggable Push-in terminal block)
Typical current consumption	< 180 mA (24 V DC)
	< 500 mA (10 V DC)
	≤ 3 mA (With activated energy-saving mode)
Max. current consumption	1.5 A

Function

Management	Web-based management
	SNMPv1/v2/v3
Data storage system	Micro SDHC card

Input data

Digital

Description of the input	Digital input
Number of inputs	4

Voltage input signal	10 V DC ... 30 V DC
Switching level "0" signal	< 8 V DC
Switching level "1" signal	10 V DC ... 30 V DC

Output data

Signal

Output name	Digital output
Number of outputs	2
Voltage output signal	10 V DC ... 30 V DC (depending on the operating voltage)
Current output signal	≤ 50 mA (Not short-circuit proof)

Connection data

Supply

Connection method	Push-in spring connection
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm²
Single conductor/terminal point, rigid	0.14 mm² ... 1.5 mm²
Single-wire/terminal point, flexible	0.14 mm² ... 1.5 mm²
Conductor cross-section, flexible [AWG]	26 ... 16
Stripping length	9.00 mm

Interfaces

Web server	yes

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

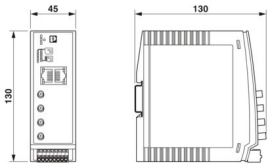
Serial transmission speed	10/100 Mbps, auto negotiation
Connection method	RJ45 jack, shielded
No. of channels	2
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP/IP, HTTP(S), (S)FTP, TFTP, SCEP, RADIUS, IPsec
	Network Discovery: LLDP, CDP, FDP, SONMP, EDP, IRDP
Auxiliary protocols	ARP, DHCP, DNS, DynDNS, PING (ICMP), SMTP(S), NTP, SSL/TLS, STARTTLS, SMS

Wireless

Interface description	WLAN in accordance with IEEE 802.11 a/b/g/n
Operating mode	Access point
	Client
	Dual mode
	Mesh
Frequency	5 GHz
	2.4 GHz
	11 Mbps (2.4 GHz)

Data rate	54 Mbps (2.4 GHz)
	144 Mbps (2.4 GHz)
	54 Mbps (5 GHz)
	150 Mbps (5 GHz)
Antenna connection method	RSMA (female)
Security	WPA, WPA2 (TKIP, CCMP, PSK, RADIUS)

Dimensions

Dimensional drawing	
Width	45 mm
Height	130 mm
Depth	130 mm

Material specifications

Color (Upper housing part)	light gray (RAL 7035)
Material (Housing)	Polycarbonate

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant

Wireless approval USA, FCC

Certificate	Z64-WL18DBMOD
Note	FCC directive, part 15

EMC data

Electromagnetic compatibility	Conformance with RED Directive 2014/53/EU
Noise immunity	EN 61000-6-2

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

Contact discharge	± 6 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
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4

Fast transients (burst)

Input	± 2 kV (Test Level 3)
Signal	± 2 kV (Ethernet)
Comments	Criterion B

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Surge current load (surge)

Input	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)
Signal	± 1 kV (Data line, asymmetrical)
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6

Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
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

Criteria

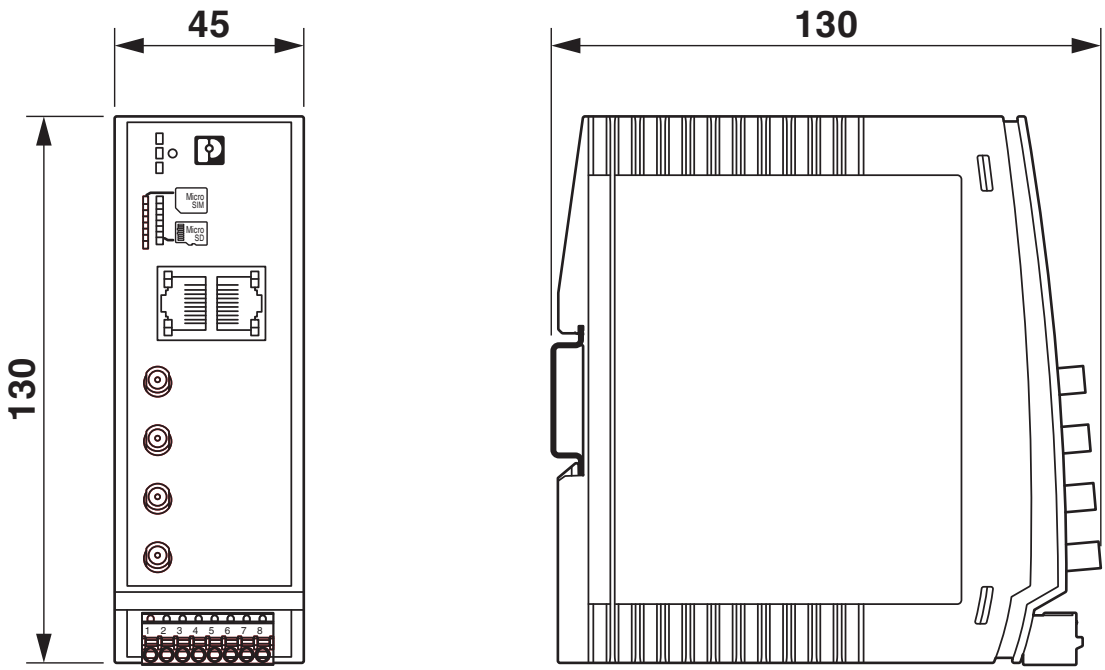
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Mounting

Mounting type	DIN rail mounting

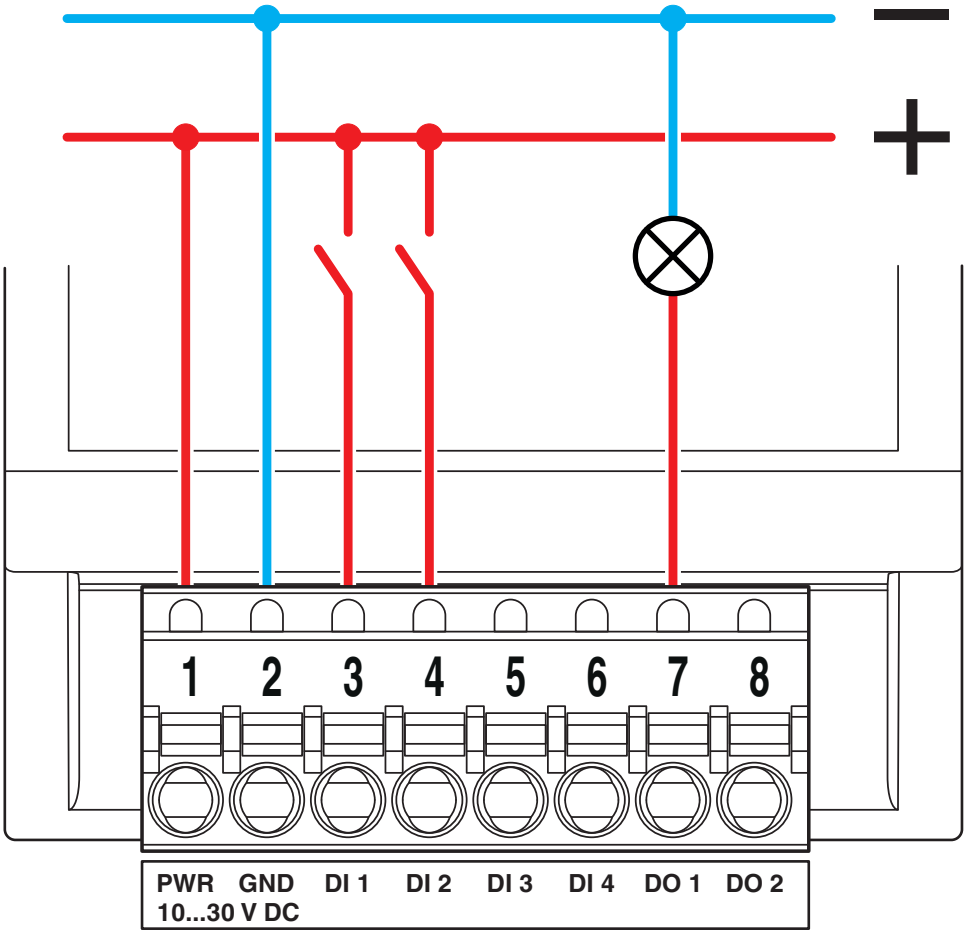
Drawings

Dimensional drawing



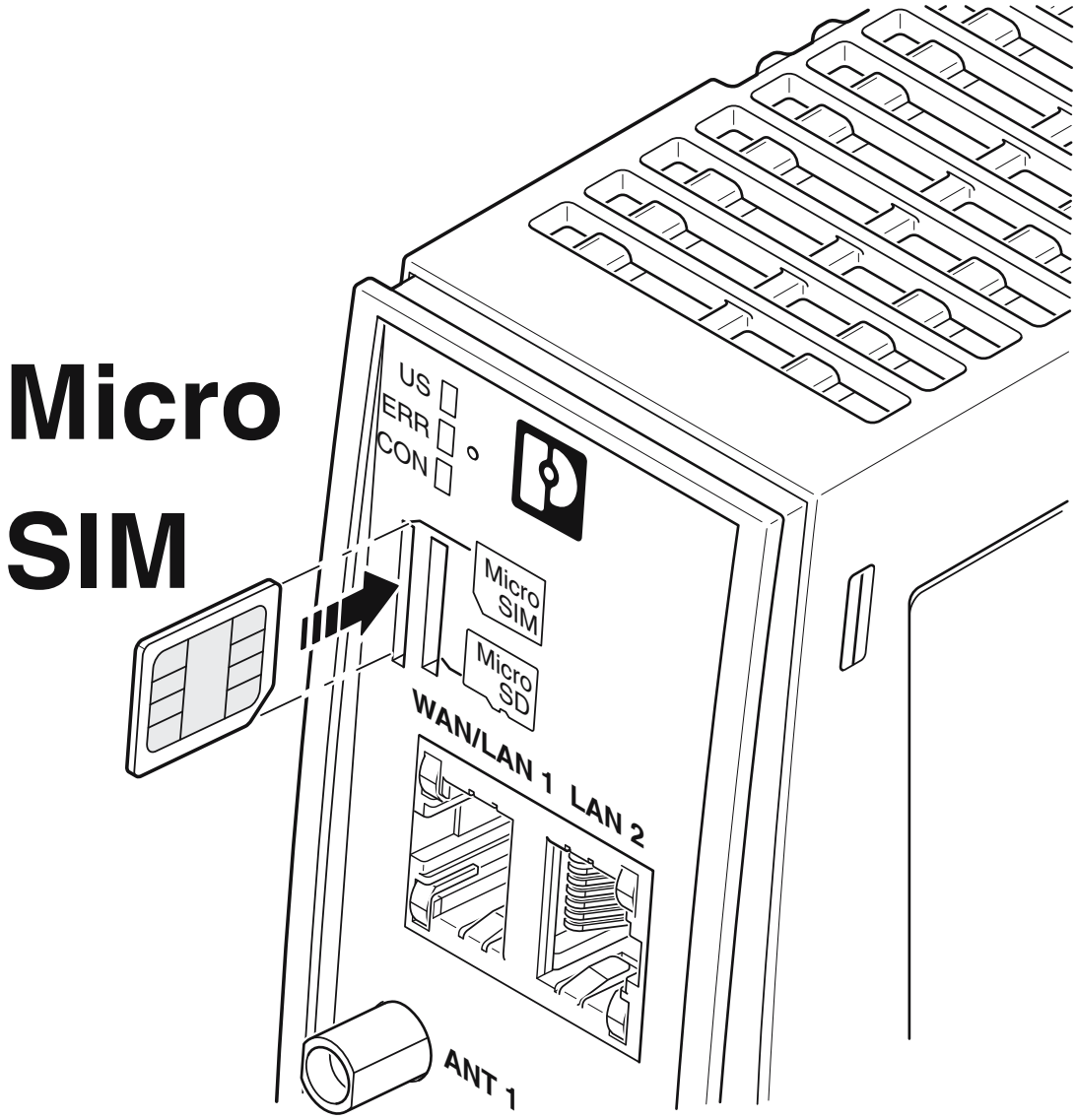
Dimensions (product version with four antenna connections)

Connection diagram



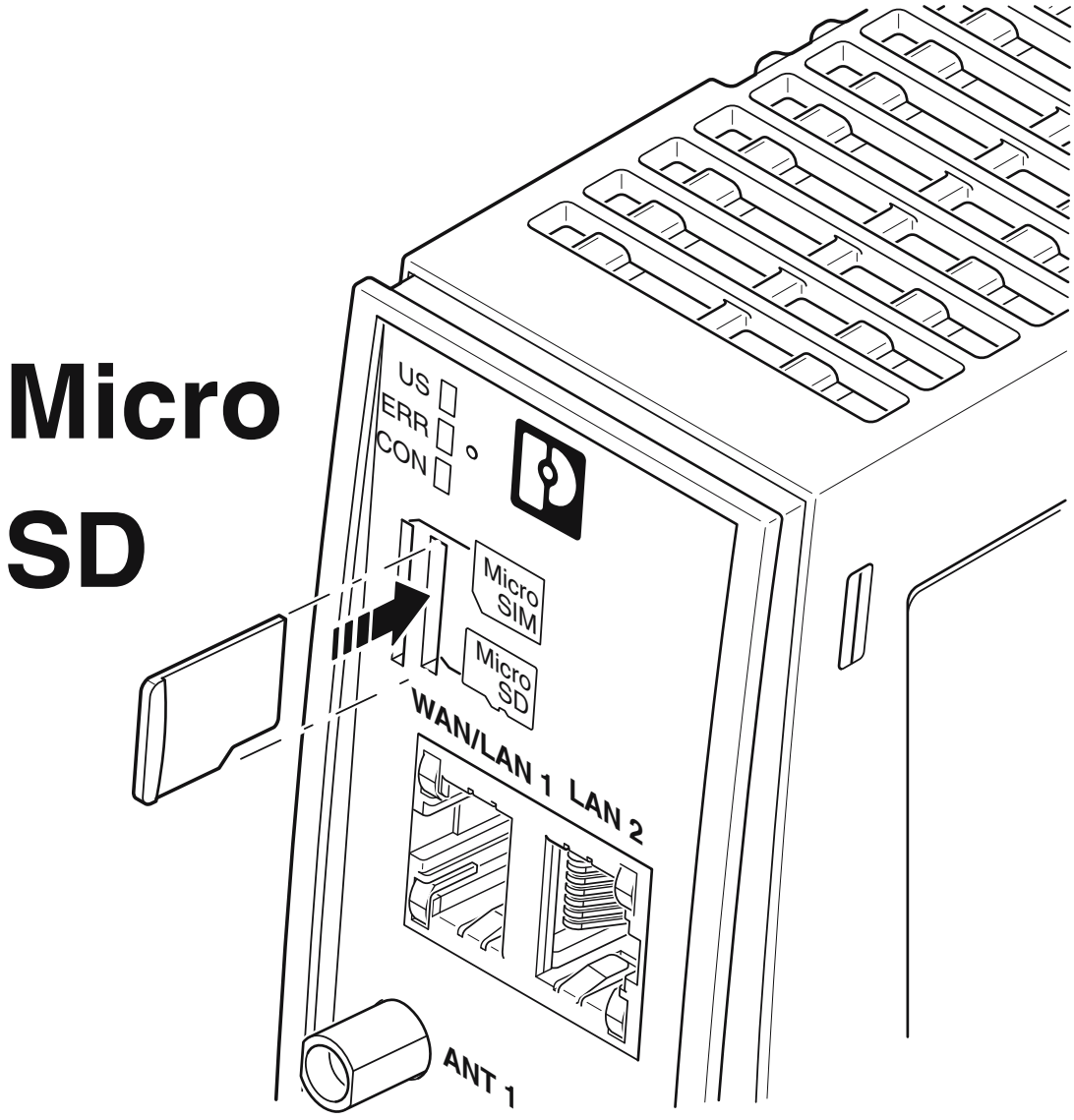
Switching inputs and outputs

Schematic diagram



Insert SIM card

Schematic diagram



Insert SD card

Classifications

ECLASS

ECLASS-13.0	19170502

ETIM

ETIM 9.0	EC001478

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

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

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