

Modem - TC EXTENDER 6004 ETH-2S - 2702255

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Managed Ethernet extender, point-to-point, line and ring structures, data rates up to 30 Mbps, distances of up to 20 km on in-house copper cables, replaceable surge protection, 2 SHDSL ports, 4-port switch, diagnostics via display and Ethernet

Your advantages

- ✓ Distances up to 20 km
- ✓ Up to 15.3 Mbps in 2-wire operation
- ✓ Up to 30 Mbps in 4-wire operation
- ✓ Robust modulation method (SHDSL)
- ✓ Automatic SHDSL data rate detection
- ✓ Network transparent (no IP configuration required)
- ✓ Automatic detection of network cable type (auto MDI(X))
- ✓ Automatic network data rate detection (10/100 Mbps)
- ✓ Easy startup, plug and play
- ✓ Two digital outputs for alerting external controllers
- ✓ Remote diagnostics via IP and automatic event messages via SNMP



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 055541 |
| GTIN | 4055626055541 |

Technical data

Note

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

Dimensions

| | |
|--------|--------|
| Width | 60 mm |
| Height | 130 mm |
| Depth | 160 mm |

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Technical data

Ambient conditions

| | |
|--|--|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| | -25 °C ... 0 °C (Display inactivity can occur, image changes may take several seconds) |
| | 55 °C ... 60 °C (Display contrast can deteriorate) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| Altitude | 2500 m (For restrictions see manufacturer's declaration) |
| Degree of protection | IP20 |

General

| | |
|--|---|
| Electrical isolation | VCC // Ethernet // DSL (A) // DSL (B) // FE |
| Test voltage data interface/power supply | 1.5 kV AC (50 Hz, 1 min.) |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Net weight | 786 g |
| Housing material | Aluminum / steel sheet DC01 |
| MTTF | 506 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day)) |
| | 260 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
| | 110 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |
| Conformance | CE-compliant |
| ATEX | # II 3 G Ex nA IIC T4 Gc X (Please follow the special installation instructions in the documentation!) |
| UL, USA/Canada | 508 Listed |

Power supply

| | |
|-----------------------------|---------------------------|
| Nominal supply voltage | 24 V DC ±5 % |
| Supply voltage range | 10 V DC ... 60 V DC |
| Typical current consumption | 90 mA (60 V DC) |
| | 200 mA (24 V DC) |
| | 450 mA (10 V DC) |
| Connection method | Push-in spring connection |

Serial interface

| | |
|---------------------|--|
| Interface 1 | Ethernet interface, 10/100Base-T(X) in acc. with IEEE 802.3u |
| Interface | Ethernet |
| No. of ports | 4 |
| Connection method | RJ45 socket, shielded |
| | 4 ports 10/100BaseT(X), auto negotiation and autocrossing |
| Transmission length | < 100 m (shielded twisted pair) |
| Protocols supported | IPv4, IPv6, TCP/IP, HTTP, HTTPS |
| Auxiliary protocols | ARP, DHCP (Client), PING, SNMP |

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Serial interface

| | |
|---------------------------------------|--|
| Serial transmission speed | 10/100 Mbps, auto negotiation |
| Interface 2 | SHDSL interface according to ITU-T G.991.2.bis |
| No. of ports | 2 (2-wire operation) |
| Connection method | Push-in spring connection |
| Transmission length | < 20 km (Depending on data rate and cable cross section) |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |
| Serial transmission speed | 4-wire operation: 64 kbps ... 30 Mbps |
| | 2-wire operation: 32 kbps ... 15.3 Mbps |

Function

| | |
|----------------------------------|---|
| Web-based management | yes |
| Management | Web-based management: Diagnostics, log book, customized configuration |
| Status and diagnostic indicators | Display for warning, status and device information |

Digital outputs

| | |
|-----------------------|------------------------------------|
| Output name | Digital output |
| Number of outputs | 2 |
| Voltage output signal | depending on the operating voltage |
| Current output signal | ≤ 500 mA (Short-circuit-proof) |

Standards and Regulations

| | |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Type of test | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| Test result | 5g, 10...150 Hz, 2.5 h, in XYZ direction |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | 15g |
| Standards/regulations | EN 61000-4-2 |
| Contact discharge | ± 6 kV |
| Indirect discharge | ± 6 kV |
| Standards/regulations | EN 61000-4-3 |
| Frequency range | 80 MHz ... 3 GHz |
| Standards/regulations | EN 61000-4-4 |
| Comments | Criterion B |
| Standards/regulations | EN 61000-4-5 |
| Signal | ± 1 kV (asymmetrical, shielded Ethernet cable) |
| | ± 4 kV (asymmetrical: line to ground, unshielded SHDSL cable) |
| | ± 2 kV (symmetrical: line to line, unshielded SHDSL cable) |

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Standards and Regulations

| | |
|-----------------------|----------------------------------|
| Standards/regulations | EN 55011 |
| | EN 61000-4-6 |
| Frequency range | 0.15 MHz ... 80 MHz |
| Standards/regulations | EN 50121-4 |
| Conformance | CE-compliant |
| ATEX | # II 3 G Ex nA IIC T4 Gc X |
| UL, USA/Canada | 508 Listed |
| Noxious gas test | ISA-S71.04-1985 G3 Harsh Group A |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Dechlorane Plus |
| | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

ATEX

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
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|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
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|--------------|--|--|--|
| cULus Listed | | | |
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