

SHDSL REMOTE POWER SUPPLY MODULE RPS12 SNMP ELCONNECT®

UNIVERSAL

Designed for every network

FIELD-PROVEN High quality and reliability

POWERFUL

Range extension for SHDSL systems



THE PRODUCT

The RPS12 SNMP is a remote power supply module for those DSLAM's or Multiservice Access Nodes (MSAN's) that come without own remote supply functionality to power SHDSL transmission lines. So a range extension for numerous ELCON-made and client-specific SHDSL systems and repeaters (TDM, ATM and EFM) is possible.

The RPS12 SNMP is installed between the DSLAM resp. the SHDSL line card and the distant device and can provide 112 V DC remote power supply for up to 12 independent SHDSL lines (1-pair). This allows to power from the exchange side, among others, regenerative repeaters (SHDSL Repeater) or respective remote-fed SHDSL NT's (e.g. NT2MSKU-T 2P), so they don't need to be powered locally. The remote power supply voltage is being imposed on the SHDSL line from the DSLAM, whereby the DSLAM is protected against voltage feedback. Each remote power supply module can be individually switched off and on locally or remotely, whereby operating and error conditions are signalled through LEDs on the front panel.

Via this embedded SNMPv2/3 interface further remote configuration and management of the RPS module is possible from a network management centre (NMS). For local configuration and administration an embedded Web-GUI can be accessed via the integrated LCT interface (Local Craft Terminal).

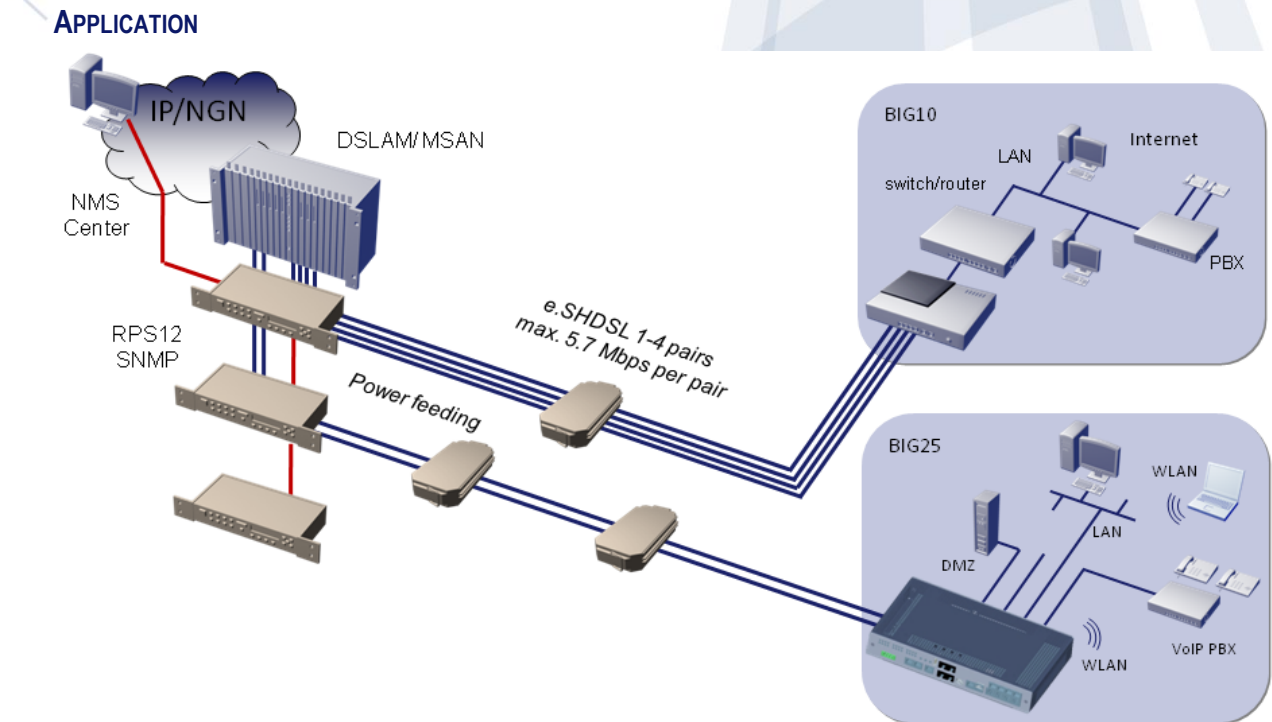
More than one RPS12 SNMP modules can be cascaded by using the internal 2-port Ethernet switch, which saves additional external switch modules or Ethernet cards in the DSLAM / MSAN. Furthermore this results in more space in the shelf and reduces the total power consumption.

The embedded external alarm interface (MDI / MDO) allows not only to transmit information about faults and operating states of the RPS itself to the DSLAM / MSAN, it allows further to control and to signal external alarm signals (e.g. from window / door contacts) to the network management system. Therefore the RPS12 SNMP is equipped with one sum alarm interface, 3 individual alarm output and 4 alarm input interfaces. Each alarm in- and output can be individually programmed. With that help it is possible for example to combine 4 SHDSL feeding lines to one group and to signal all failures on these lines as a single alarm to the DSLAM / MSAN. This offers an easy assignment of remote power failures of an SHDSL bonding group to the corresponding information of the transmission interfaces, which is located in the DSLAM / MSAN.

The RPS12 SNMP is offered as 19" plug-in unit and can be installed both in a 19-inch and a standard ETSI system rack in coexistence with the DSLAM / MSAN.



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TECHNICAL DATA

Interface RPS-OUT

- Nominal remote supply voltage (U_{nom}): 112 V \pm 3 V
- Internal overvoltage protection (U_{max}): \leq 120 V
- Nominal remote supply current (I_{nom}): 4 mA ... 59 mA
- Remote supply current limitation (I_{max}): 66 mA \pm 10%
- Idle run of the remote power supply interface: $I < I_{nom}$
- Short circuit of the remote power supply interface:
 $U < 90 \text{ V} \pm 5 \text{ V}$ and $I = I_{max}$
- Unbalance of the remote power supply interface:
 $R_{LEAK} \leq 250 \text{ k}\Omega$
- Connector type: RJ 45

Interface RPS-IN

- From multiplexer: ITU-T G.991.2
- Connector type RJ 45

Interface MDI/MDO

- Voltage range MDI contacts: 18 V DC ... 72 V DC (internal current limiting)
- Voltage range MDO relais contact: $< 220 \text{ V DC}$
- Max. current per relais contact: $< 0.3 \text{ A}$

Interfaces LCT, UP and DOWN

- Standard Ethernet protocol IEEE 802.3
- IEEE 802.1Q, 802.1d, native Multicast
- Max. MTU-size: 1500 Bytes
- RJ45 Ethernet 10/100 Base-T, MDI/MDIX-Autosensing

SNMP-MIBs (Standard MIBs)

- SNMP-USER-BASED-SM-MIB
- ENTITY-MIB
- SNMP-VIEW-BASED-ACM-MIB
- SNMPv2-MIB
- IF-MIB

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TECHNICAL DATA

Power supply

- Voltage range: 40.5 V DC ... 75 V DC
- Power consumption: < 125 W

Physical parameters

Casing

- Dimensions (W × D × H): 445 mm × 235 mm × 45 mm
- Weight: approx. 3.4 kg
- Casing material: Metal

Environmental conditions

- Air temperature: -25°C ... +70°C; with temperature monitoring
- Rel. air humidity: 93% / 30°C, no condensing water

EMC & Safety

- EMC: ETSI TS 201 468, ITU-T K.21, ETS EN 300 386
- Safety: EN 60950-1

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PURCHASE ORDER INFORMATION

Product designation	Order number
RPS12 SNMP	900366