

BIG 1014 – BROADBAND INTELLIGENT GATEWAY ELCONNECT®

SHDSL

highly available symmetrical data transfer
via deployed copper cable network

EFM-BONDING

high-speed data transfer at up to
22 Mbps over large distances

MANAGED BRIDGE APPLICATION

allowing flexible use in
multiple application scenarios



THE PRODUCT

Business customers today need a modern and efficient communication infrastructure, so they require extremely flexible, high-performance transmission systems and terminal equipment. Special attention is hereby paid to meet the demand for highly available, symmetrical broadband services with conventional SLA, as well as the requirements with respect to bandwidth management, separation of the individual voice and data services, and the guaranteed availability of certain services (e.g. VoIP) using efficient prioritization algorithms.

The products from the Broadband Intelligent Gateway (BIG) series are specially designed for business customers.

The Managed SHDSL EFM CPE BIG 1014 is optimized for data applications, such as the transmission of internet data, the connection of external locations to a central office by setting up virtual local area networks (VLAN), or the transmission of voice and video information in real time for VoIP and video conferences. It provides a variety of functions for efficient bandwidth management* and the prioritization of services and interfaces*. The unit can also be used to feed Mini-DSLAM's in remote outdoor locations that are not linked over an optical fiber connection.

The BIG 1014 offers a managed bridge function and can optionally be upgraded to a router, thus providing an ideally suited device to meet different customer requirements.

Data transmission to the IP backbone runs over max. four SHDSL lines, which can provide data rates of up to 5.7 Mbps per each line pair, using the SHDSL transmission method. The special EFM-bonding allows increasing the total capacity of the business customer access to even 22 Mbps. Bandwidth expansions can be very easily realized by adding further SHDSL lines to the bonding group, so that the customer's demand for higher bandwidths will be met without delay.

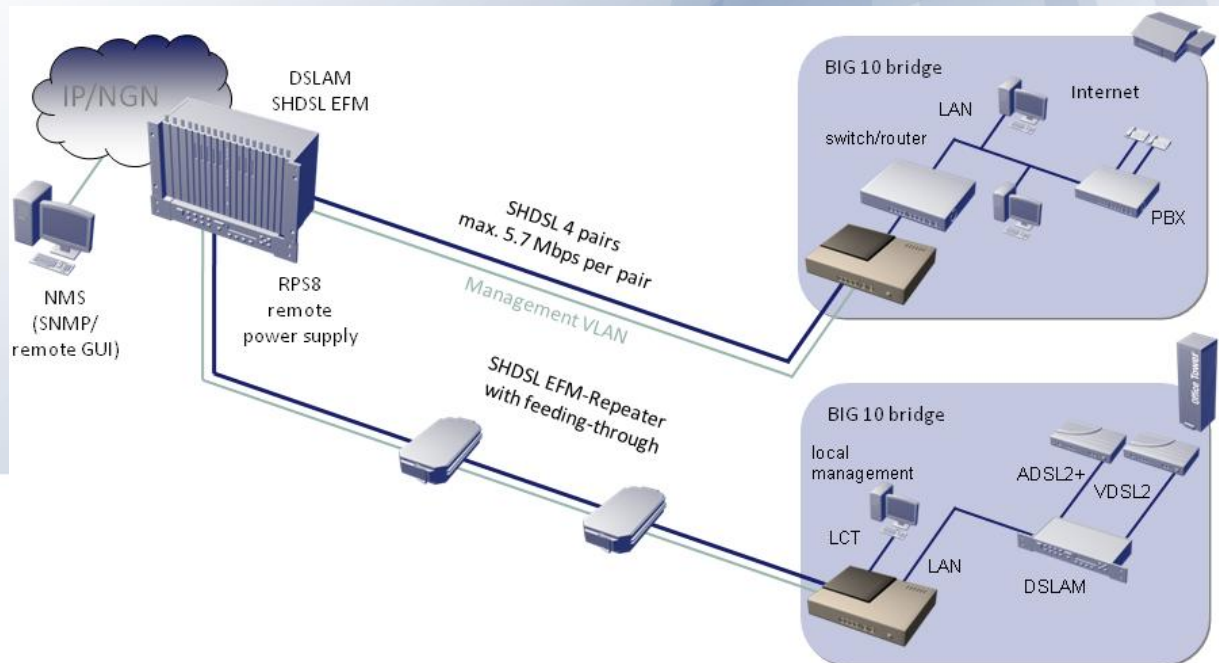
The high availability of the business customer access and the individual services provided along can be guaranteed.

Local and remote configuration as well as management are realized by the implemented local craft terminal (LCT) resp. the implemented SNMP-protocol which guarantee that the efforts for OAM are kept to a minimum.



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APPLICATION SCENARIO



FEATURES OF THE ELCON SYSTEM

- symmetrical data transfer at up to 22 Mbps via legacy copper wire pairs
- 4 × SHDSL-EFM with SHDSL and EFM-Bonding support
- range extension through the use of max. 2 cascaded repeaters (ZWR2MSKU 1P EFM) per SHDSL or flexible adjustment of the SHDSL bit rate
- line test of twin-wire copper cable and predefined target noise margin through line probing (PMMS)
- client-side interfaces
 - 4 × Ethernet LAN
 - LAN1 as local craft terminal (LCT)
 - LAN2-4 as client-side LAN-interfaces (in bridge mode only LAN2 active)
- managed bridge support
- local configuration and monitoring by means of password-protected LCT-port
- remote management via SNMP (management VLAN)
- remote access to the Web interface via management VLAN
- local power supply for the BIG 1014



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ELCONNECT®

TECHNICAL DATA

SHDSL

- ITU-T G.991.2 G.SHDSL.bis
- 4 SHDSL pairs
- high symmetrical bandwidth (up to 22 Mbps) due to SHDSL and EFM-bonding support (IEEE 802.3ah)
- 1 × RJ45

Ethernet LAN

- standard Ethernet protocol IEEE 802.3
- IEEE 802.1q, 802.1d, native Multicast
- DHCP-client/server
- TCP/IPv4
- 4 × RJ45 Ethernet 10/100 Base-T, MDI/MDIX autosensing (of this 1 × ETH as LCT)

OAM

- dying gasp

Management and Configuration

- local configuration via LCT (Web-GUI)
- remote configuration and management
- SNMP support
- firmware update

Security

- management VLAN
- password protection for Web-GUI (2 user level)

Physical Parameters

power supply of plug-in power supply module (Euro plug)

- operating voltage range: 100 V ... 240 V AC
- frequency range: 50 Hz ... 60 Hz
- current consumption: ≤ 0.5 A

power supply of BIG 1014

- nominal voltage: 12 V DC
- current consumption: < 1.2 A

dimensions and weight

- dimensions (W × D × H): 240 mm × 160 mm × 48 mm
- weight: 0.6 kg

ambient temperature

- during operation: 0°C ... 45°C
- during storage: -40°C ... 70°C

EMC & Safety

- CE-marking
- EMC: EN 55022, ETSI EN 300 386, ETSI ES 201 468, 1TR9, ITU-T K.21 „Enhanced Test Level“
- Safety: EN 60950-1

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PURCHASE ORDER INFORMATION

Product Designation	Order Number
BIG 1014 (4-port SHDSL)	900214-049-SN

