

MileGate 2011

Micro-DSLAM for the provision of VDSL2 in Fibre-to-the-Building applications (FTTB)



MileGate 2011

- 8 VDSL2 interfaces with profiles 8 ... 30 MHz
- Uplink and cascading via SFP-based GbE interface (optical or electrical)
- Fanless unit, no noise emission
- Integrated Converter for CATV optical to electrical (option)
- Integrated 115 ... 230V power supply
- Lockable housing
- Interworking with network management system UNEM

MileGate 2011 is the FTTB VDSL2 NTU of the Next Generation Network platform MileGate.

The Micro-DSLAM terminates the optical fibre of the feeder network in the building. It provides 8 VDSL2 subscriber interfaces. This way high quality Triple Play services can be provided via the existing in-house cabling.

Optional legacy telephone connections or/and legacy cable TV can be provided in parallel.

■ VDSL2 in MileGate 2011

Using VDSL2 transmission in MileGate modern services as VoIP, broadband Internet, Video-on-Demand and IPTV can be provided. The VDSL2 interfaces of MileGate 2011 support all important profiles and band plans – including the profile 30a, which is designed for bit rates above 100 Mbps.

■ Cable TV media converter

MileGate 2011 can optionally be equipped with a media converter. The media converter receives the

via CATV overlay or separate optical fibre transmitted TV signal and converts it into an electrical signal. This can be provided via the existing in-house coax cabling to all subscribers.

■ Cascading and ring connection

MileGate 2011 comes with two SFP-cages for GbE and two 100/1000BaseT connectors. MileGate 2011 can cascade or connect to the backbone via these interfaces.

In addition a ring structure can be realised to allow a maximum

failure protection in case of line interruption.

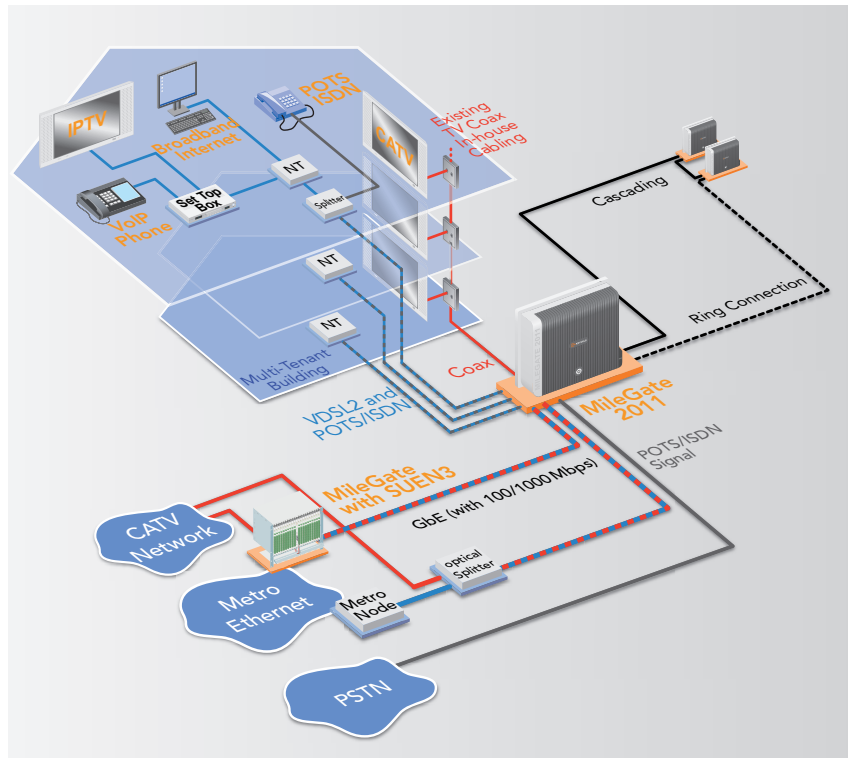
■ Compact and safe

MileGate 2011 is designed for in-house installations. It can be easily mounted at any indoor wall.

In spite of the compact housing, MileGate 2011 does not need additional ventilation. With the integrated power supply unit the MileGate 2011 can be connected to the in-house power circuit.

■ Management

The unit will be managed via CLI, SNMP, UNEM and Telnet.



MileGate 2011 in FTTB applications (Fibre-to-the-Building)

Technical Data

VDSL2 Interfaces

Number of ports	8 (according to ITU-T G.993.2, Annex B, Europe), VDSL over POTS and over ISDN
EFM (Ethernet in the First Mile)	According to IEEE 802.3ah
VDSL2 profiles	8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a
VDSL bandplans	997 and 998 + extensions
Power back-off (upstream and downstream)	Supported

Trunk Interfaces for Cascading and Ring Connection

Optical	2 x SFP slot, digital diagnostic is supported
Electrical	2 x 100/1000BaseT
Further features	RSTP 802.1w for ring connection, LACP 802.3ad for bundling

Ethernet Functionality

Supported protocols	PPPoE with PPPoE intermediate agent acc. to Broadband Forum TR-101 and IETF RFC 2516 IPoE with DHCP Option 82 according to IETF RFC 2131, RFC 3046
Multicasting	IGMP v2/v3, supports IGMPv3 snooping
VLAN	VLAN according to 802.1Q Double tag VLANs (Q-in-Q) according to 802.1ad Modes 1:1 or n:1 (n:1 with port isolation)

Dimensions (H x W x D)

MileGate 2011	380 x 340 x 105 mm
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Management

CLI, SNMPv3	For integration in the operators OSS
Telnet, CLI	Supported
MCST, UNEM	For inventory data and alarming

Power Supply

Input voltage nominal (min/max)	115 ... 230VAC
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Operation Environment

Temperature range	ETS 300 019-1-3 Class 3.2 (-5 ... +45°C, fanless operation)
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