MileGate 2012

G.fast/VDSL2 vectoring node optimised for ultra broadband
in Fiber-to-the-Building applications (FTTB)

MileGate 2012

- Fiber-like speed in copper access deployment
- Provides 8 vectored G.fast ports
- Supports VDSL2 operation with Vectoring
- Uplink via SFP interface (P2P or GPON)
- Electrical Ethernet for subtending
- Wall mounting – optimized for FTTB installation

- Easy installation – no fixed preassembled cables (no copper tail)
- Fanless unit, no noise emission
- Lockable housing/intrusion alarm supported
- Integrated 115…230 V power supply
- Optional CATV converter module

MileGate 2012 enables ultra broadband. To connect subscribers, MileGate 2012 provides eight G.fast interfaces. Fibre-like data rates are achieved via the copper pair of the existing in-house cabling.

■ G.fast and VDSL2 in MileGate 2012

The downstream to upstream ratio of the G.fast interfaces of MileGate 2012 is configurable. This enables symmetric data rates as they are required for Web 2.0 or for business clients.

Apart from G.fast, MileGate 2012 also supports VDSL2 vectoring. This enables network operators to extend the broadband technology according to their needs.

■ FTTB

MileGate 2012 is a network node optimised for FTTB. It is passively cooled. This means there are no noise emissions. It can be directly mounted to the wall of a building. There is no special housing required.

MileGate 2012 is lockable and has an intrusion alarm that reports any unauthorised access attempt to the network management system of the operator.

The node is directly 115/230 V AC powered – no separate power supply devices are required. Due to the optimisation for FTTB applications, subscriber interfaces are easy to access – no preassembled breakout cable is required.

MileGate 2012 terminates the optical connection in buildings. Via SFPs it is possible to use Gigabit Ethernet (P2P) or GPON.

Ring connection

MileGate 2012 can be deployed in ring topologies.

Also subtending is possible via electrical gigabit Ethernet interfaces.

CableTV media converter

With a CATV module, that can be applied optionally, MileGate 2012 can provide broadband cable TV via an existing COAX cabling. The CATV signal can be transmitted via separate optical fibres or via the overlay.

Management

The component is managed by CLI, SNMP and Telnet
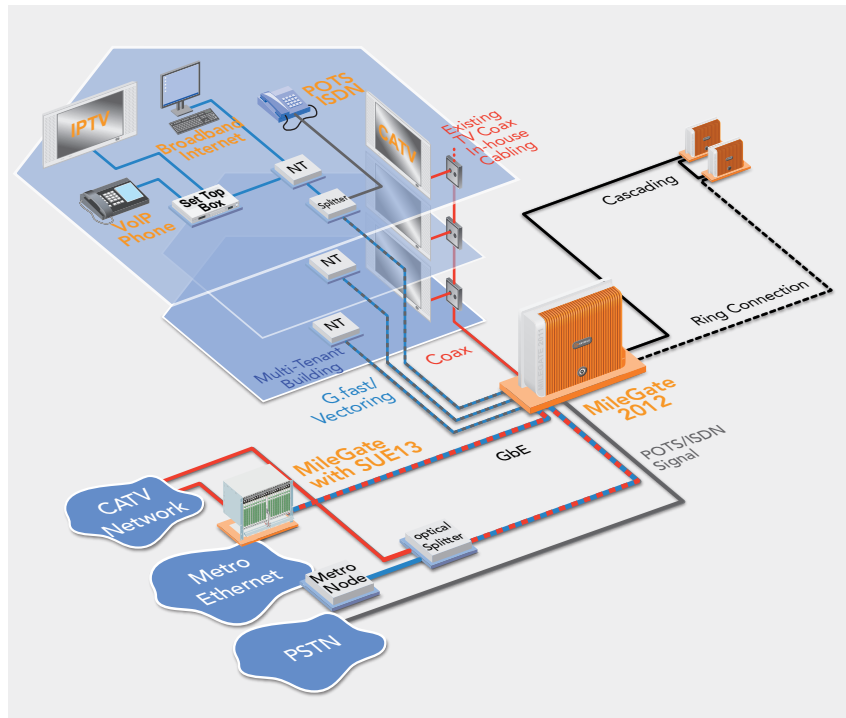
MileGate 2012 in FTTB applications (Fibre-to-the-Building)

Technical data

Interfaces	
Number of ports	8 multimode ports supporting G.fast and VDSL2
G.fast	Acc. ITU.T G.9700/9701 (106MHz), G.fast start frequency configurable
	Resource allocation/Downstream to upstream ratio configurable
VDSL2	Acc. to ITU-T G.993.2, Annex B, Europe VDSL2 over POTS and over ISDN
	VDSL2 vectoring acc. ITU-T G.993.5, Profiles 17a and 30a
Trunk interfaces	
Optical interfaces	2 GBE SFP slots – (DDM support), P2P or GPON SFP stick
Electrical interfaces	2 x 100/1000BaseT
Architecture	Cascading and ring connection (RSTP 802.1w)
General	
Performance	Wire speed non blocking switching matrix
Protocols	Multicasting IGMP v2/v3, supports IGMPv3 snooping
	PPPoE with PPPoE intermediate agent, IPoE with DHCP Option 82
Flexible options	
Voice splitter	Optional integrated POTS/ISDN splitter module
RF overlay	Optional integrated CATV O/E converter module
Dimensions (H x W x D)	
MileGate 2012	380 x 340 x 105 mm
	Door lockable, intrusion alarm (door open)
DSL interfaces	Easy accessible connectors – no fixed preassembled cables (no copper tail)
Management	
CLI, SNMPv2/v3	For the inclusion in the OSS of the network operator
Telnet, ftp, tftp, SSH	Supported
Power supply	
Input voltage nominal (min/max)	115 ... 230 V AC
Operation environment	
Temperature range	ETS 300 019-1-3 Class 3.2 (–5 ... + 45°C, fanless operation), temperature monitoring supported

Looking for more information?
Find your local contact on **www.keymile.com**
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