Enabling the hyper-connected world

MileGate

Distribution Point Unit MileGate 2144

24 G.fast ports with profile 212a for ultra-broadband connection (FTTB)

MileGate 2144
G.fast-DPU (Distribution Point Unit)

Features & Benefits

- Date rates like with optical fiber
- G.fast acc. to G.9700/9701
- Compact 1 HU chassis
- Up to 2x 10GbE uplink with link aggregation
- 24x G.fast (with fallback to VDSL2)
- Multi-stage QoS acc. to IEEE 802.1p CoS
- Supports IGMP snooping for IPTV applications
- Management with CLI, SNMP, RMON, Web GUI

MileGate 2144 is a DPU (Distribution Point Unit) optimized for FTTB. It provides G.fast services for up to 24 subscribers with fiber-like data rates via the copper pairs of the existing in-house cabling.

With MileGate 2144 network operators can easily offer IPTV and VoD (Video on Demand) in Ultra HD quality.

G.fast

G.fast is supported with profiles 212a and 106a. Profile 212a provides aggregated (upstream+downstream) data rates of close to 2 Gbps on short copper loops. Profile 106a still delivers rates of almost 1 Gbps. The downstream to upstream ratio of the G.fast interfaces on the MileGate 2144 is configurable. This enables symmetric data rates as they are required for cloud service applications or for business clients.

Apart from G.fast, MileGate 2144 also supports VDSL2. This enables network operators to deploy the broadband technology according to their needs.

FTTB

With its non blocking switch MileGate 2144 comes with a multitude of features like QoS, IP-multicasting and VLAN. Thanks to its small footprint the DPU can be easily installed in technical rooms of multi-tenant buildings.

G.fast-DPU MileGate 2144

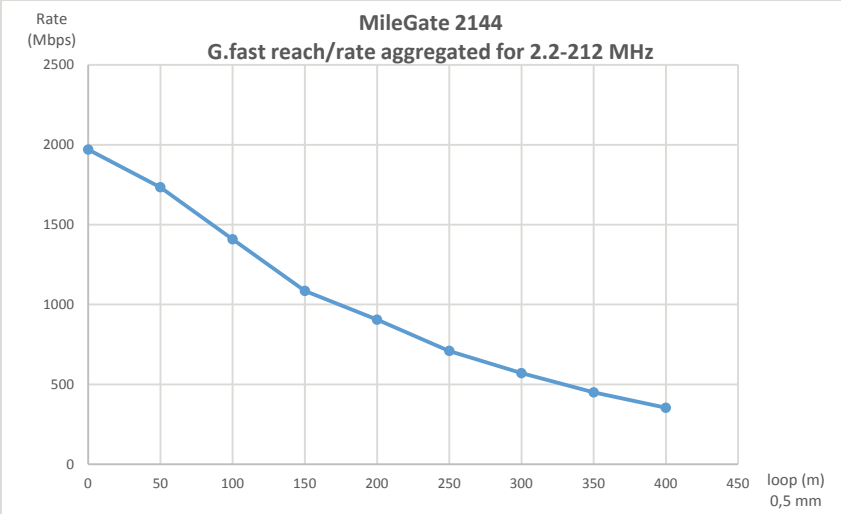
MileGate

Network interfaces

Network operators can equip up to two SFP+ plug-in modules with 10GbE or 1GbE network interfaces in a MileGate 2144. In addition, it can be used as GPON/XGS-PON ONU, installing an ONU-Stick.

Management

Configuration and monitoring of the MileGate 2144 is realized via CLI, SNMP, Web GUI and RMON.



G.fast data rate (upstream and downstream aggregated) over 0.5 mm twisted copper pair using the full G.fast spectrum 2.2 MHz to 212 MHz

Technical Data

General	
Function	G.fast Distribution Point Unit (DPU) with VDSL2 fallback
Applications	FTTB (Fiber-to-the-Building)
Network interfaces	
Interfaces	2x 1000Base-x (SFP) oder 10GBase-R (SFP+), GPON, XGS-PON (via ONU stick)
Supported spanning tree protocols	STP/RSTP/MSTP/PVSTP/PVRSTP
Teilnehmerschnittstellen	
Interfaces (RJ-21)	24x G.fast acc. to G.9700/9701, fallback to VDSL2 with profi le 17a acc. to Annex P
Vectoring	G.fast vectoring with 24-port group size
OLR (online reconfiguration)	SRA (Seamless Rate Adaption), TIGA (Transmitter Initiated Gain Adjustment), RPA (Remote Management Channel Parameter Adjustment), FRA (Fast Rate Adaption)
Layer2 features	
Standards supported	VLAN port/subnet/protocol, 802.3ad link aggregation, port mirroring, rate limiting with egress shaping, flow control acc. to 802.3x, MAC address translation with n:1, MVR (Mcast VLAN Registration), DHCP relay option82
Multicast features	IGMPv2/v3, IGMP snooping, IGMP proxy
Layer3 features	
Standards supported	IPv4 and IPv6, DHCP client, DHCP server
Cyber security	
DoS-resilients	Broadcast/multicast storm control
	Authentication: RADIUS, TACACS+ 802.1x
Management	
Interfaces	10/100/1000Base-T (RJ45) and serial (RJ45)
Standards supported	Seriel/Telnet (CLI), SNMPv1/v2/v3, Web-GUI, Syslog, Port-Mirroring
Mechanics	
Dimensions (W x H x D)	440 mm x 44 mm x 300 mm
Power supply	
Input voltage	115 V AC to 230 V AC (50/60 Hz)
Operation environment	
Operation temperature	-10 °C to +50 °C
Humidity	0% to 90% (non-condensing)

DZS Americas
Global Headquarters
Plano, TX, USA
info@dzsi.com
www.DZSi.com

DZS Asia
Regional Headquarters
Seongnam-si, Gyeonggi-do, South Korea
info@dzsi.com
www.DZSi.com

DZS EMEA
Regional Headquarters
Hanover, Germany
info.emea@dzsi.com
www.DZSi.com