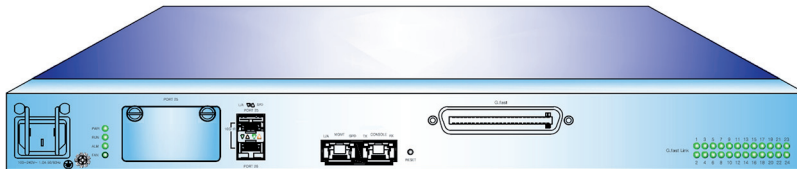


# MileGate 2144

24 G.fast connections with profile 212a for ultra-broad-band connection out of technical rooms (FTTB)



- Data rates like with optical fibre
- G.fast acc. to G.9700/9701
- 1 HU unit height
- Up to 2x 10 GbE 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 DPU (Distribution Point Unit)

MileGate 2144 is a DPU (Distribution Point Unit) optimised for FTTB. It provides G.fast services for up to 24 subscribers with fibre-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 HDTV 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 of 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 and its extended temperature range the DPU can be easily installed in technical rooms of multi-tenant buildings.

limited

This product is not released yet. Product features are subject to change. For more information, please contact your KEYMILE contact person.

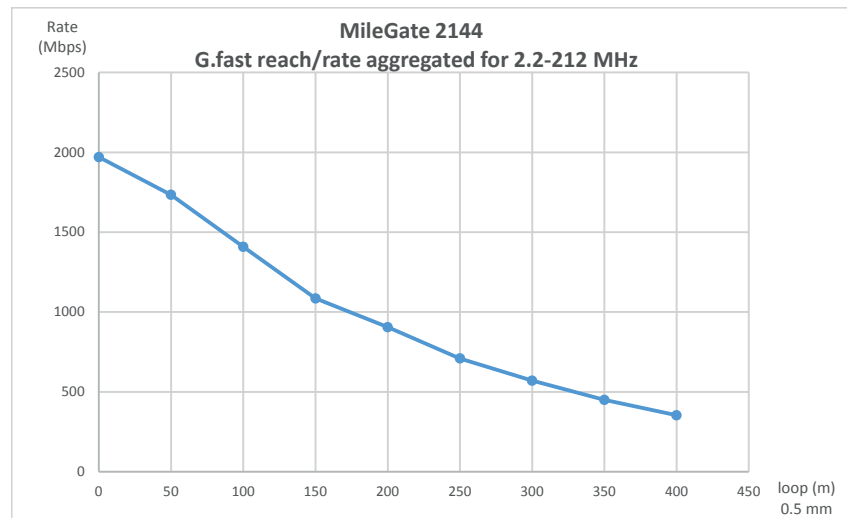


### Network interfaces

Network operators can fit 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 ONU, installing an ONU-Stick .

### Management

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



## Technical data

General	
Function	G.fast Distribution Point Unit (DPU) with VDSL2 fallback
Applications	FTTB (Fibre-to-the-building)
Network interfaces	
Interfaces	2x 1000Base-x (SFP) or 10GBase-R (SFP+), GPON, XGS-PON (via ONU stick)
Supported spanning tree protocols	STP/RSTP/MSTP/PVSTP/PVRSTP
Subscriber interfaces	
Interfaces (RJ-21)	24x G.fast acc. to G.9700/9701, fallback to VDSL2 with profile 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, 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	Serial/Telnet (CLI), SNMPv1/v2/v3, Web GUI, syslog, port mirroring
UNEM supported	Yes
Mechanics	
Dimensions (W x H x D)	440mm x 44mm x 300mm
Power supply	
Input voltage	115VAC ... 230VAC (50/60Hz)
Operation environment	
Operation temperature	-10°C to +50°C
Humidity	0% to 90% (non-condensing)

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