

# MileGate 2500/2510 and 2300/2310

Subracks of the Multi-Service Access Platform for NGN and legacy services out of one network element



MileGate 2500/2510 (left) and MileGate 2300/2310

- Two subrack sizes for different kinds of installation
- Wide range of xDSL interfaces
- Wide range of voice services
- Uplink via PDH, SDH, Ethernet
- Up to 400 Gbps backplane capacity and 20 Gbps to every slot
- Enables 1:1 redundancy of core unit and media gateway
- Native TDM and Ethernet out of one network element
- Designed for indoor and outdoor deployment
- All functions via one network management system

The subracks MileGate 2500/2510 and MileGate 2300/2310 provide comprehensive multi-service capabilities in a compact chassis.

Reliability, compact mechanical construction and flexibility were in the foreground of development activities. The subracks are designed for implementation in rough environmental conditions and can be deployed in outdoor cabinets. Core unit and media gateways are designed for redundant operation to guarantee maximum availability.

## ■ MileGate

Due to its unique hybrid backplane MileGate integrates traditional and NGN services in one network element. This way a simple and cost-effective migration is achieved. Legacy services like POTS/ISDN are combined with NGN services for Triple Play and business applications (ADSL2plus, VDSL2, SHDSL, optical Ethernet, etc.) in a single network element and uplinked to the backbone via 1/10GbE, SDH STM-16/4/1 (STM-16 only with MileGate 2510 and 2310), or n x E1 interfaces.

Each slot is connected with two 1 GbE interfaces via the backplane to the core units (two 10 GbE interfaces with MileGate 2510/2310) for undisturbed transmission.

All services provided by MileGate can be mixed in any way. For maximum flexibility with voice services, VoIP media gateways (SIP or H.248) and traditional V5.2 interfaces are available.

For maximum flexibility with data services, a wide range of legacy data interfaces such as X.21, V.35 and G.703 are available and they can be transported over the

Packet Switched Network with the CESoP gateway unit.

#### ■ MileGate 2500/2510

This subrack offers 21 slots, 20 can be allocated with service line cards. It is designed for major access points, where a large number of subscribers are connected with different services. With its high port density, up to 1216 POTS, 1280 ADSL2plus, 672 VDSL2, 480 optical or 240 electrical Ethernet customer ports can be provided.

#### ■ MileGate 2300/2310

This subrack offers 8 slots, 7 can be allocated with service line cards. It is designed for mid-size

access points. It can be installed horizontal or upright as well as wall-mounted in equipment rooms in buildings or in street cabinets. Up to 384 POTS, 448 ADSL2plus, or 336 VDSL2, or 168 optical or 84 electrical Ethernet customer ports can be provided.

#### ■ Safety/Redundancy

To achieve maximum availability, two core units and media gateways can be installed in every subrack. They exchange the configuration data of the services in the MIB (Management Information Base) automatically, thus in case of failure the stand-by unit can assume operation easily. This way the breakdown time, where services are not available, is reduced to a minimum.

MileGate uses distributed powering concept with onboard power supplies on each line card, gateway etc. This eliminates the risk of total breakdown caused by a failure in a central power supply.

For integration of external alarms, MileGate 2500/2510 provides 12 alarm inputs and 2 alarm outputs via the fan unit that are monitored with the network management system. MileGate 2300/2310 offers 12 alarm inputs.

#### ■ Management

All services are managed centrally via the management system (UNEM) or via local management access (CLI, XML, SNMP).

### Technical Data

General	MileGate 2500/2510		MileGate 2300/2310	
Number of slots (for service line cards)	Up to 20		Up to 7	
Slots for core units with redundancy	Max. 2		Max. 2	
Slots for media gateways with redundancy	Max. 2		Max. 2	
Supported FAN unit	FANU4		FANU6	
Features	MileGate 2500	MileGate 2510	MileGate 2300	MileGate 2310
System architecture	Fully modular architecture, any service at any slot			
Protective functions	Core unit and media gateway with 1:1 module redundancy			
Ethernet Backplane access per slot	2 x 1 GbE	2 x 10 GbE	2 x 1 GbE	2 x 10 GbE
SDH capabilities	Up to STM-4	Up to STM-16	Up to STM-4	Up to STM-16
Dimensions (W x D x H) and Weights	MileGate 2500/2510		MileGate 2300/2310	
Unit height	8 HU (with cable tray)		4 HU	
Without front cover	482.6 x 284 x 308.2mm, 6,440g		482.6 x 279.7 x 177 mm, 4,450g	
With front cover	482.6 x 301 x 308.2mm, 7,430g		482.6 x 301 x 177 mm, 5,050g	
Cable tray	482.6 x 240 x 87.1 mm, 870g		Included with 19" adapter	
Heat deflector	482.6 x 237 x 87.8mm, 1,580g		Not necessary	
Type and design	19" and ETSI mounting			
Standards				
Electromagnetic compatibility	EN 55022, class B			
Safety	IEC/EN 60950-1			
Management				
MCST	For local management			
UNEM	For central network management			
Power Supply				
Input voltage nominal (min/max)	-48/-60VDC (-40.5VDC ... -72VDC)			
Operation Environment				
Operation temperature	-25°C ... +60°C			
Humidity	According to class 3.2, max. 95%, non condensing			



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