

MileGate

MileGate COGE6

Core unit for the subrack MileGate 2200



Core unit COGE6 Features & Benefits

- + Uplink with 2 x 1 GbE via SFP modules
- 2 x 10/100/1000BaseT for uplink, cascading, ring connection
- Administration of line cards and gateways MIBs (Management Information Base)
- Distribution of the ESW (Embedded Software)
- Designed for outdoor deployment
- + Only for Mini-DSLAM subrack MileGate 2200
- + All functions via one network management system

COGE6 is a core unit for the MileGate 2200 subrack. It controls the installed line cards via the backplane and realises the uplink of the Ethernet data. The uplink can be n x 1 GbE optical or electrical.

COGE6 operates as Ethernet switch that provides a wide range of functions like e.g. VLAN services and multicasting.

Interfaces

COGE6 controls the data traffic with all installed line cards and provides the Ethernet uplink. COGE6 comes with two electrical interfaces and two cages for optical SFP modules. The two electrical interfaces can be used for cascading or ring connection with further MileGates or for the uplink, too.

2-stage multicasting

The 2-stage multicasting feature of the COGE6 and the installed line cards provide efficient data transmission. This is essential for bandwidth consuming applications, in particular for the transmission of TV channels (IPTV).

Topologies

With the interfaces of COGE6 different network topologies can be realised. Beside the star or line topology, redundant 1+1 connections can be built for the **MileGate COGE6**



case that a transmission route is interrupted.

Management

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



Illustration of COGE6 connections

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Technical Data

Interfaces COGE6		
Optical	2 x GbE via SFP (SFP cages)	
Electrical	2 x 10/100/1000BaseT (RJ45)	
Supported topologies	Star, linear chain and ring	
Management	10BaseT/100BaseT and 1000BaseT/SX/LX/EX/ZX and USB (local)	
Management COGE6		
Functions	Management and control of MileGate subrac	cks and all plug-in units
	Database with management information Embedded software download Alarm collection and notification	
	External alarm interfacing via backplane and	Imanagement
Ethernet Functions COGE6		
VLAN services	According to IEEE 802.1Q, 4,096 VLANs supported Two VLAN configuration modes (1:1 and n:1) acc. to Broadband Forum TR-101 VLAN tag stacking (Q-in-Q), according to IEEE 802.1ad VLAN QoS with Class of Service (CoS) handling, according to IEEE 802.1p	
Spanning Tree Protocol	STP (Spanning Tree Protocol), according to IEEE 802.1D	
	RSTP (Rapid Spanning Tree Protocol), based on IEEE 802.1w	
Multicast	IGMP v2/v3, supporting IGMPv3 snooping with	
proxy reporting and message suppression		
Link aggregation	LACP, based on IEEE 802.3ad	
Security Functions COGE6		
MAC address MAC address filtering		
	Prevention of source MAC spoofing und MAC flooding	
Access control list	control listMAC based access control, according to TR-101Multicast access control lists (multicast group restriction)	
Further functions	Subscriber isolation per VLAN Prevention of L2 peer to peer (hair pin) forwarding	
	roadcast handling	
Management		
Local Management System	MCST	
Central Management System	UNEM	
Power Supply		
Input voltage nominal (min/max)	-48/-60 V DC (-39.5 V DC72 V DC)	
Operation Environment		
Temperature range and humidity	According to MileGate environmental specifications	
DZS Americas	DZS Asia	DZS EMEA
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