



N5000 DSLAM

SHDSL EFM

16 or 32 subscribers
23/23 or 45/45 Mbps per subscriber

DCombus N5000 is a DSLAM for SHDSL EFM applications. The chassis includes two uplink ports and carries max sixteen EFMC4 SHDSL linecards. The max number of subscribers is 32 with two copper pairs or 16 with four pairs connections. The N5000 achieves max 11.4/11.4 Mbps per copper pair making the system ideal for implementing high performance broadband connections with quickly deployable twisted copper pairs.

EFM (Ethernet in the First Mile) techniques guarantees highly efficient Ethernet services delivery from operator networks to the end customer premises via EFM compatible DSLAM and SHDSL CPEs. DCombus N5000 DSLAM with IRIS 520/540 modems and CPEs are optimized for managed Ethernet services access platforms for operators, carriers and internet service providers.

The DCombus N5000 DSLAM supports SHDSL EFM modems such as IRIS 520/540 modems.

Main Properties

- DSLAM for high performance Ethernet over copper subscriber links with SHDSL EFM
- Max 16 EFMC4 SHDSL subscriber linecards
- Max 32 two pairs, or 16 four pairs subscribers per chassis
- 11.4/11.4 Mbps per copper pair subscriber links
- Two uplink ports per chassis, 10/100/1000Base-T Eth and 1000Base-X GbE (SFP)
- Additional uplink port per subscriber card
- IEEE 802.3ah Ethernet in the First Mile (EFM)

Main Applications

- Symmetrical broadband access for managed Eth services
- Operator and ISP provided broadband services for businesses, SMEs, branch offices, etc.
- Mobile networks basestation IP/Ethernet backhaul
- Scalable Ethernet over copper services
- Business critical Ethernet services
- High performance IP camera and surveillance networks
- Campus networks for extended Ethernet/LAN

Products, Options

- N5000 DSLAM chassis, including CSM control and uplink card, 2x3 fan module, input for 48 VDC power supply
- EFMC4 SHDSL EFM subscriber card, including subscriber port configurable as 2x1 pair, 2x2 pairs or 1x4 pairs port, 1x 10/100 uplink port
- Telco50 cable, 50-pin, 24 port SHDSL line cable

TECHNICAL SPECIFICATIONS

N5000 Chassis

- 4U high, 19" rack mountable chassis
- Slots for upto 16 EFMC4 SHDSL EFM subscriber cards
- Temperature sensitive fans, 2x 3 module fans
- CSM control card for console and uplink ports
- 48 VDC power supply input, max 150W

CSM Control and Uplink Card

- Uplink port 1: 10/100/1000Base-T Eth (RJ45)
- Uplink port 2: 100BaseFX or 1000Base-X GbE (SFP)
- Serial port for console (RJ45)

EFMC4 SHDSL EFM linecard

- 2x one pair subscriber port, 11.4/11.4 Mbps per subscriber
- 2x two pair subscriber port, 22.8/22.8 Mbps per subscriber
- 1x four pair subscriber port, 45/45 Mbps per subscriber
- 1x uplink port: 10/100Base-T Eth (RJ45)

Ethernet, VLAN and QoS

- Ingress port rate control, egress traffic shaping
- Port based 802.1p/DSCP QoS
- Four priority queues, strict, leaky bucket based WPQ
- IGMP snooping
- Port/tag based VLAN (802.1Q)
- Max 4095 VLAN IDs
- MTU 1536

Management

- CLI, telnet, SNMP
- FTP, TFTP for SW/FW update

Connectors

- 3x 50-pin Telco connectors for subscribers in rear panel
- Uplink ports (RJ45, SFP) and console port in front panel