



SHDSL IP DSLAM EDN424

The EDN424 is a 24-port IP DSLAM in the EDA solution. EDN424 is an environmental hardened, 1U high mini-DSLAM that aggregates 24 SHDSL lines to one 100 Mbps Ethernet. Design flexibility enables the EDN424 to be mounted as rack, wall or vertical positioned units inside an existing closure.

Downlink and uplink ports

EDN424 offers 24 SHDSL downlink ports, each supporting symmetrical bandwidth of up to 2.3 Mbps for single pairs and 4.6 Mbps in 4-wire mode. The uplink aggregates the 24 ports to 100 Mbps Ethernet.

Management

The Public Ethernet Manager (PEM) is the element manager for EDN424. The node will be visible in PEM and it is possible to forward all alarms through the northbound interface, however, provisioning is done directly in the node using SNMP. A customized management VLAN is terminated in the EDN424 to enable remote management of the unit.

Services

EDN424 enables the operator to offer services such as:

- Telephony over IP (ToIP) to the end-users
- Data services as either fixed bandwidth or bandwidth on demand, with the possibility of using the existing PPP authentication
- Small Medium Enterprise (SME) services, such as video conferencing, LAN to LAN, VPN services to the enterprise over the existing copper

The SHDSL loops provide flexibility in the deployment schemes. The loops can be delivered individually in single port SHDSL customer premises. Other deployment options include 4-wire mode for longer reach or higher bandwidth.

Security

EDN424 ensures a secure network by offering VLAN according to IEEE 802.1Q.

Technical data

THIS DOCUMENT IS VALID FOR RELEASE

- EDA 2.1 and EDA 2.2

GENERAL

- Front access to all connections
- 50-pin amphenol connector for SHDSL ports
- RJ-45 for Ethernet 10/100Base-T uplink
- DB-9 craft interface
- DB-15 alarm interface, input/output

CONNECTION METHODS

- Transparent LAN/VLAN
- DHCP
- Static IP address

QUALITY OF SERVICE

- CBR, VBR-rt, VBR-nrt and UBR
- PVC to Ethernet mapping, IEEE 802.1Q
- Multiple priority queues, IEEE 802.1p
- Multiple PVC per port
- One VLAN per port
- Multiple VLAN per port (pending)

MANAGEMENT

- Ericsson's Public Ethernet Manager
- Local Craft Tool as VT100
- RFC 1907 SNMPv2
- RFC 3276 G.SHDSL MIB

SHDSL

- G991.2 SHDSL
- G994.1 (Handshake procedures)
- ETSI TS 101 548

CAPACITY

- 24 SHDSL downlink ports as 2-wire
- 192 – 2304 kbps in steps of 64 kbps (2-wire)
- 384 – 4608 kbps in steps of 128 kbps (4-wire)
- 10/100 Mbps Ethernet uplink

POWER

- Redundant power inlet: -42 VDC to -56 VDC
- Consumption: Typical/Max: 25/30 W

DIMENSIONS

- H x W x D: 44.5 x 438.2 x 282.6 mm
- Weight: 3.6 kg

RELIABILITY

- MTBF is 23.5 years at 25°C ambient

ENVIRONMENTAL

- NEBS Level 3
- GR-1089-CORE, Issue
- GR-63-CORE, Issue 2
- Lightning Surge, Power Cross
 - ITU-T K.20 (2000)
 - Telstra 1563 Issue 4 (Australia)
- EMC/ESD
 - EN 300 386 V 1.3.1
- Safety
 - EN 60950 with IEC 950 CB Scheme
 - UL 60950 Third Edition
 - AS/NZS 60950
- Storage
 - ETSI EN 300 019-1-1 class 1.1
 - NEBS GR-63-CORE;
- Transportation x
 - ETSI EN 300 019-1-2 class 2.3
 - NEBS GR-63-CORE
- Operational environment (-40°C to +65°C)
 - ETSI EN 300 019-1-3 Class 3.1E
 - NEBS GR-63-CORE
- Earthquake
 - NEBS GR-63-CORE, zone 4
- Acoustic Noise
 - ETS 300 753