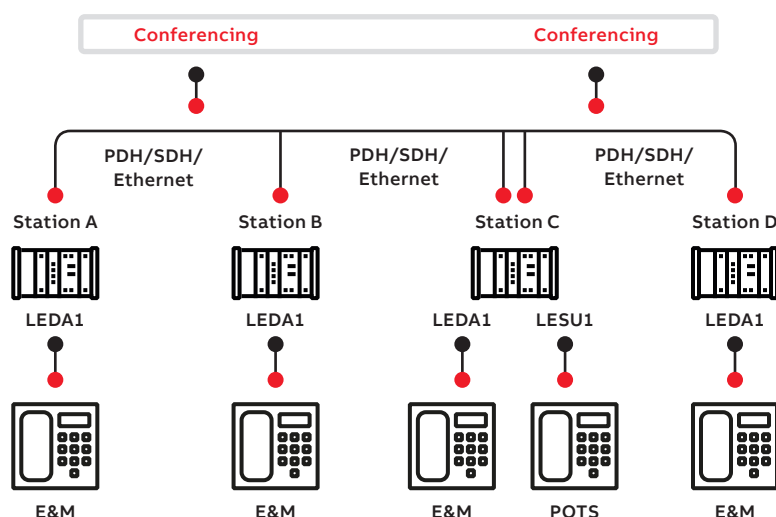


FOX615 LEDA1

LEDA1 offers E&M VF interfaces with onboard conferencing function for dedicated networks



LEDA1 integrates traditional 2/4 wire E&M services in the FOX615 platform. LEDA1 offers with this the possibility for analogue trunk connections between installed voice exchanges or trunk extension for an exchange which can only be reached via power line carrier (narrow band channels). Additionally LEDA1 offers voice conferencing functionality.

01 Analogue telephone network with conferencing.

Thanks to the access to the FOX615 hybrid Ethernet-TDM backplane, services offered with LEDA1 can be transmitted via all transport network technologies.

LEDA1 offers the following functionality:

- 8 x 2 or 4-wire E&M analogue interfaces
- Fully inter-operable with FOX515 cards
- Scalable conferencing on board for 32 participants per unit and 10 parties
- Enables different topologies
- Various protection functions
- Built-in maintenance functions for network debugging
- All functions configurable from one network management system

E&M V/F Interface

LEDA1 is equipped with eight voice interfaces with a telephony bandwidth of 300 Hz to 3.4 kHz with separate E&M signaling interfaces. Each voice channel is configurable in 2-wire or 4-wire mode and offers two E&M signaling channels.

Conferencing engine

The on board conferencing engine enables various applications and network topologies so that legacy telephony services can be combined and integrated in a modern telecommunication network. Distributed and centralized voice conferences with a maximum of 32 participants per unit and up to 10 parties with maximal 17 participants each can be set up.

Protection functions

LEDA1 supports different protection mechanisms, ensuring that the delivered service persists in case of a failure in subnetworks:

- Network protection: 1+1 path protection and 1+1 subnetwork connection protection (SNCP/I)
- 1:1 equipment protection for the conferencing function

Flexible topology

With the LEDA1, operators of dedicated networks can build a variety of applications in different network topologies. Applications which can be addressed by LEDA1 in a point-to-point network topology:

- Analogue telephony networks with E&M
- Connection of analogue trunks from PLC networks
- Inter exchange trunking connection

Applications which can be addressed by LEDA1 in a point-to-multi point network topology:

- Analogue telephony networks with conferencing
- Analogue telephony networks with conferencing and Shared Protection Ring

An application which can be addressed by LEDA1 in a multi point-to-multi point (Omnibus) network topology is analogue telephony conferencing with and without Shared Protection Ring.

Management

The management of the LEDA1 is integrated in the FOXCST/ FOXMAN-UN management system. By having one element manager for all types of

services, operators will accelerate the provisioning process. The element manager ensures efficient OAM&P (Operation, Administration, Maintenance and Provisioning) and lower operational costs.

Technical Data

E&M Interface

Analogue voice interface	2-wire, 4-wire
Number of analogue voice interfaces	8
Signaling interfaces	E&M 8 x 2
Signaling interface types	Type I to Type V

Conference Engine

Conferences	Linear addition of the voice signals, wired - and addition of the CAS signaling signals
Conference type	Multi point-to-multi point, point-to-multi point
Number of conferences	Up to 10
Number of participants per conference	Up to 17
Number of participants per unit	Up to 32

Analogue Voice Interface

Coding	A-Law according to ITU-T G.711
Performance characteristics	According to ITU-T G.712
Impedance in the voice band	600 ohms balanced and floating (2-wire input/output, 4-wire input, 4-wire output)
Bandwidth	300 ... 3,400 Hz

Protection

Supported protection mechanism	1+1 path protection 1+1 SNCP/I protection 1:1 equipment protection
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Management

FOXCST	For local management
FOXMAN-UN	For central management

Power Supply

Input voltage nominal (min/max)	-48/-60 V DC (-40.5 V DC ... -72 V DC)
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Operation Environment

Temperature range and humidity	According to FOX615 environmental specifications
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