



Product: [16-E1-L E1 TDM Interface](#)

XTran Interface Module with 16x E1 LAN ports

Product Description

The 16-E1-L interface module (=IFM) provides sixteen E1 ports for connecting E1 TDM links to the XTran network. 16-E1-L refers to '16 ports – E1 – LAN'. E1 links are used to implement synchronous TDM links between two end points. These links typically transport voice and/or data using TDM. This IFM converts the E1 framing from an E1 link into MPLS-TP packets over the XTran network, and vice versa. A packetized TDM service is called a Circuit Emulation Service (=CES). A maximum of 64 CESes (with a maximum of 32 Hitless switching services) can be configured per 16-E1-L module.

Technical Specifications

Product Overview

Part Number:	S30924-Q215-X121
Port Type and Quantity:	1x HPDB68 Connector
Port Mode:	LAN

Power requirements

Operating Voltage:	+12V
Power consumption:	Measured at 25°C/77°F, with data transport: 9.2W

Features and Protocols

Synchronization:	Sync-E
Test & Debugging Features:	Test & Loopback, Loss Measurement (LM) (in aggregation/access nodes), Delay Measurement (DM) (in aggregation/access nodes), Tunnel Ping, Tunnel Traceroute, Port Mirroring (can only be a source, can be mirrored to Ethernet IFMs)
Configurable Services:	Circuit Emulation: SAToP (=Structured Agnostic TDM over Packet), CESoPSN (=Circuit Emulation Service over Packet Switched Network), Hitless Switching / Single Path, Channelized SDH-SONET (CSoP Smart SFP) for STM-1

Ambient conditions

MTBF (Telcordia SR-332 Issue 4) @ 25°C:	166 Years
Operating Temperature Range:	With XT-1104-A, XT-2206-A, XT-2209-A, XT-2210-A (aggregation nodes): -30° to +65°C (-22° to 149°F); With XT-2215-A (core nodes): -20° to +55°C (-4° to 131°F)
Storage Temperature Range:	-30° to +75°C (-22° to 167°F)
Relative humidity (non-condensing):	0-95 %

Mechanical construction

Overall Width:	20.32 mm
Overall Height:	126 mm
Depth:	195 mm
Weight:	0.25 kg

Approvals

Basis Standard:	CE, EN 55032:2015 + A11:2020, EN IEC 61000-3-2:2019, EN 61000-3-3:2013 + A2 :2021, EN 55035:2017 + A11:2020, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019
Safety of industrial control equipment:	EN 62368-1:2014
Power Utility:	EN 61000-6-5:2015, EN 61850-3:2014 (§6.7), IEEE 1613-2009 (§4), IEEE1613-2013 (clause 5,7,8,9,10)
Transportation:	EN 50121-4:2016 + A1:2019

Reliability

Guarantee:	Standard 1 year (extension possible)
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Scope of delivery and accessories

Accessories to Order Separately:	Interface Adapter Kit for Core Nodes: C30965-A9550-D16; Dropcable, 1.5m HPDB68 to open end for 16-E1-L (1 per 16 port card): V30912-A3064-A3; Dropcable, 2m HPDB68 to 16 RJ45 with coupler for 16-E1-L (1 per 16 port card): C30965-A9550-D11; Patch panel 1HU feedthrough 24 ports (for A9550-D11): V30912-A3010-A5; BNC Patch panel with Drop cable, 2m HPDB68 to 16 Port Coax (1 per 16 port card): C30965-A9550-D14
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Further Instructions

Product Documentation:	Available via Belden Solutions Portal site
Certificates:	Available via Belden Solutions Portal site
Software Download:	Available via Belden Solutions Portal site

History

Update and Revision:	Revision Number: 0.25 Revision Date: 11-14-2025
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