

# SFP-E1

## TRANSPARENT PDH OVER PACKET SFP MODULE



### Introduction

The **CXR SFP-E1** provides a E1 120 Ohm balanced interface via a RJ45 to transport a E1 signal across an Ethernet network by using the SAToP (RFC4553) protocol. The **SFP-E1** provides a Gigabit Ethernet at the 20-pin electrical interface. The **SFP-E1** is designed as a plug-and-play device and therefore can be used without any provisioning. The circuit ground is internally isolated from the SFP metal housing. The cable ground is connected, via the RJ-45 connector, to the SFP metal housing.

### Features

- SAToP (RFC4553) packetizer
- Differential clock recovery
- MEF8 Frame header format
- Jitter and wander compliant to MEF18, ITU-T G.8261 and G.823
- Compliant with SFP MSA\*
- MSA side works in SerDes mode
- Metal package for lower EMI
- E1 120 Ohm balanced via RJ-45 connector
- HDB3 line coding
- E1 interface complies with ITU-T G.703 (04/2016)
- Operating temperature range: -40 °C to 85 °C
- RoHS2 compliant
- *Exception: power consumption exceeds MSA limit and due to the RJ45 connector there are some constraints with belly-to-belly applications.*

### Applications

- TDM over Packet
- Mobile backhaul networks
- Migrate E1 access to packet
- Interop with any standard SAToP equipment



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