

OSIRIS EC-1 Mapper Units

Overview



The Positron OSIRIS Multi-service Platform (MSP) is an integrated access solution for the rapidly expanding synchronous optical network (SONET) broadband markets. It delivers the most cost-effective, compact and simple-to-deploy solution for multi-service traffic such as data, voice and video.

EC-1 Mapper Technology

The OSIRIS solutions are designed to map various types of signals over a fiber ring. The EC-1 mappers transport an STS-1 signal (51.84 Mbps) on a SONET signal. The EC-1 Bulk mapper processes the STS-1 signal at the STS-1 level, enabling any type of payload to be transported. The EC-1 virtual tributary (VT) mapper processes up to 28 VT1.5 from 1 STS-1, keeping complete VT1.5 visibility. The EC-1 time slot assignment (TSA) mapper processes up to 28 VT1.5 from 1, 2, or 3 different STS-1s via TSA.

Key Benefits

- All mappers feature remote circuit testing and loopback
- The EC-1 Bulk mapper has the capability to carry unchannelized traffic
- The EC-1 VT and EC-1 TSA mappers feature VT path switching
- The EC-1 TSA mapper performs time slot assignment and optimizes bandwidth usage
- Each mapper provides an ideal solution for electrical network interconnection

Key Features

- All mappers feature performance monitoring on EC-1 line and section overheads
- All mappers perform failure detection
- The EC-1 Bulk mapper enables you to drop and insert an STS-1 with STS-1 granularity
- The EC-1 VT mapper enables you to drop and insert an STS-1 with VT1.5 granularity
- The EC-1 TSA mapper enables you to drop and insert up to 28 VT1.5s from any STS-1

Technical Specifications

Electrical Interface

Connector	BNC
Line Build-out	
Short reach	728A/734A coax cable, 0–50 ft (0–15 m)
Long reach	728A/734A coax cable, 50–450 ft (15–137 m)
Line code	B3ZS
Line rate	51.84 Mbps
Return loss	Better than 26 dB (with test load 75 ohms \pm 5% resistive)

Physical

	Mapper Slot(s)	Protection Slot(s)
OSIRIS STD Shelf	5–7	8
OSIRIS XTD Shelf	1–3, 5–7, 9–11, 19–21	4, 8, 12, 22
OSIRIS XTS Shelf	1–3, 5–7	4, 8
OSIRIS Micro Shelf DS-3	1	2
OSIRIS Micro WMU DS-3	1	2

General

LEDs	1 for card status (initializing, normal, alarm, or failure)
Power Consumption (maximum) Per EC-1 Bulk and EC-1 VT Per EC-1 TSA	3.6 watts 6.0 watts
Compliance Safety	EN60950; UL 1950, 3rd Edition; CSA C22.2, No. 950

Product Code	CPR	ECI/Bar Code	CLEI Code	Description
800501	F70383	217104	SNCDX403AA	EC-1 Bulk mapper (EC1M)
800502	K70698	225890	SNC8FLOBAA	EC-1 VT mapper (EC1VT)
800507	K72292	2412370	SNC8POHBAA	EC-1 TSA mapper

Ordering Information

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