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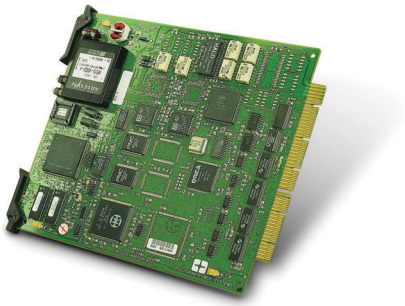
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Find the *Positron Fiber Systems 800350/2* at our website: *Click HERE*

POSITRON
Networks Division

Positron *OSIRIS* DS-1 mapper units
Versatile and cost-effective



The Positron ***OSIRIS*** multiservice 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 multiservice traffic such as data, voice, and video.

DS-1 mappers technology

The ***OSIRIS*** solutions are designed to map various types of signals over a fiber ring. The DS-1 mappers map DS-1 signals (1.544 Mbps) onto VT1.5 containers on a SONET fiber ring. They are offered in two versions: the standard DS-1, which is available in four-channel and seven-channel models; and the DS-1PM+, which is available in four-channel and eight-channel models. The DS-1PM+ mappers are enhanced versions of the DS-1 mappers, offering increased performance monitoring functions.

Protection switching control unit (PSCU) technology

The PSCU card performs DS-1 1:N protection switching at the mapper level for the ***OSIRIS*** STD, XTD, and XTS shelves. The PSCU function is integrated in the alarm and craft interface unit (ACIU) for the ***OSIRIS*** Micro Shelf and ***OSIRIS*** Micro Wallmount Unit (WMU); it provides 1:1 equipment protection.

Key benefits

- Remote circuit testing and loopback
- Failure detection
- Enhanced performance monitoring with the DS-1PM+ mappers
- 1:N protection switching via the PSCU

DS-1PM+ key features

- End-to-end preventative maintenance and service grade guarantee
- Fault isolation
- Capability to act as a demarcation point at the customer premise, creating a common provisioning and management system
- Enhanced in-service performance monitoring for anomaly and defect detection
- Line- and path-level performance monitoring
- Event detection for text and loopback (in-band and out-of-band signaling)

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TECHNICAL SPECIFICATIONS

Electrical interface for DS-1 and DS-1PM+ mapper units	
Connector	
OSIRIS STD, XTD, and XTS shelves	64-pin AMP Champ
OSIRIS Micro Shelf and Micro WMU	50-pin SCSI
Line build-out for standard-reach DS-1/VT 1.5 mapper	0–41 m (0–133 ft);
with 0.6 mm (22 AWG) wiring	41–81 m (133–266 ft);
	81–122 m (266–399 ft);
	122–162 m (399–533 ft);
	162–200 m (533–655 ft)
Line code	B8ZS or AMI
Line impedance	100 ohms ± 5% resistive
Line rate	1.544 Mbps

Physical			
	Mapper slots	**Protection slot(s)**	**PSCU slot(s)**
OSIRIS STD Shelf	1–7	9	PSCU
OSIRIS XTD Shelf	1–7, 9–22	8, 23	PSCU 1, 2, 3
OSIRIS XTS Shelf	6–12	13	PSCU
OSIRIS Micro Shelf DS-1	1, 2	2	—
OSIRIS Micro WMU DS-1	1, 2	2	—

General	
LEDs	
DS-1, DS-1 PM+	1 for card status (initializing, normal, alarm, or failure)
DS-1 PM+	1 additional for software download status

Power consumption (maximum)	
Per DS-1, 4 channels	3.2 watts
Per DS-1, 7 channels	5.2 watts
Per DS-1PM+, 4 channels	6.8 watts
Per DS-1PM+, 8 channels	7.9 watts
Per PSCU	2.0 watts
Compliance	
Safety UL 1950, 3rd Edition; CSA C22.2, No. 950	

Ordering information

Product code	**CPR**	**ECI/Bar code**	**CLEI code**	**Description**	**Shelves**
800320/4B	C72595	211974	SNCDHA03AA	DS-1 mapper, 4 channels (DSSR 4)	All
800320/7A	J70237	223010	SNC8CJ0BAA	DS-1 mapper, 7 channels (DSSR 7)*	OSIRIS Micro DS-1, OSIRIS Micro WMU DS-1
800334	G72372	235227	SND1BPBBAA	DS-1PM+ mapper, 4 channels	All
800337	G72373	235229	SND1BBMBAA	DS-1PM+ mapper, 8 channels*	OSIRIS Micro DS-1, OSIRIS Micro WMU DS-1
800350/2	C72598	211977	SNCDKN03AA	PSCU	OSIRIS STD, OSIRIS XTD, OSIRIS XTS

* These mappers can also be used with the OSIRIS STD, OSIRIS XTD, and OSIRIS XTS shelves, but they will only drop the first four channels.

POSITRON
Networks Division

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