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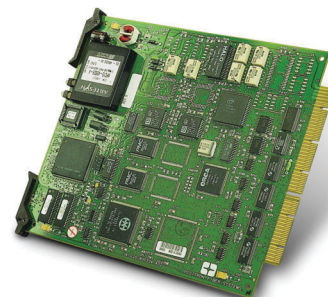
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Positron *OSIRIS* DS-I mapper units Versatile and cost-effective

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-I mappers technology

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

Protection switching control unit (PSCU) technology

The PSCU card performs DS-I 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-IPM+ mappers
- 1:N protection switching via the PSCU

DS-IPM+ 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 test and loopback (in-band and out-of-band signaling)

TECHNICAL SPECIFICATIONS

Electrical interface for DS-I and DS-IPM+ 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-I/VT 1.5 mapper with 0.6 mm (22 AWG) wiring	0–41 m (0–133 ft); 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 \pm 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-I	1, 2	2	—
OSIRIS Micro WMU DS-I	1, 2	2	—

General

LEDs

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

Power consumption (maximum)

Per DS-I, 4 channels	3.2 watts
Per DS-I, 7 channels	5.2 watts
Per DS-IPM+, 4 channels	6.8 watts
Per DS-IPM+, 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-I mapper, 4 channels (DSSR 4)	All
800320/7A	J70237	223010	SNC8CJ0BAA	DS-I mapper, 7 channels (DSSR 7)*	OSIRIS Micro DS-I, OSIRIS Micro WMU DS-I
800334	G72372	235227	SND1BPBBAA	DS-IPM+ mapper, 4 channels	All
800337	G72373	235229	SND1BBMBAA	DS-IPM+ mapper, 8 channels*	OSIRIS Micro DS-I, OSIRIS Micro WMU DS-I
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.



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 300-010-01

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