

OCTIS™ Outdoor I/O System

Right angle board connector, cable connector kit and cable assembly

ROBUST I/O FOR HIGH RELIABILITY AND PERFORMANCE

The versatile OCTIS™ I/O system, using multiple industry standard interfaces, features high speed signal and power, lightning protection, EMI shielding, and ease of installation for outdoor, compact and harsh environments.

- Blind mate, float mount, color and physical coding features makes it easy to use and avoids mismating.
- Field termination or factory certified cable assembly options are available.
- Use of standard small form factor interfaces enable greater port to port density. This makes it ideal for outdoor applications like small cells, macro cells, smart radios and RRU/RRH.
- OCTIS[™] I/O system is suitable for various applications with standard connector interfaces like SFP/SFP+, QSFP, Signal, PoE (Power over Ethernet), MDR26, Power, Hybrid of Signal & Power and RJ45.



TARGET MARKETS









FEATURES

- Outdoor weather proof
- Rugged design
- Multi standard and varying interconnection interface
- Adaptable interface holder and outer housing
- Color coding on gland nuts
- System addresses present and future signal and power requirements with option for additional connector interfaces
- 26mm pitch and <100m length from panel
- Double locking feature

BENEFITS

- Suitable for most demanding environments. Lightning protection up to 20K A
- 100 mating cycles, 200N tensile load; suitable for sophisticated equipment used in modern telecom and industrial markets
- Suitable for various applications with standard connector interfaces like SFP/SFP+, QSFP, Signal, PoE (Power over Ethernet), MDR26, Power, Hybrid of Signal & Power and RJ45.
- Cable mounting, mating and locking remain the same regardless of interface used
- · Visual identification of cable assembly type
- Upgrade option to higher data rate up to 10G & 25G per lane bandwidth and 35A+ per contact
- High density and small form factor
- Tamper proof

OCTIS[™] is a trademark of Radiall. OCTIS[™] is a joint product development between Amphenol and Radiall.

D OCTIS[™] Outdoor I/O System

SIGNAL AND POWER

Connector Interface		MDR 26	RJ45	Signal/PoE Metral® HDXS	Power – Pwr Profile®	Hybrid - Signal & Power	
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Dimensions		94 x 41 x 27mm (Length x Width x Height)	94 x 26 x 27mm (Length x Width x Height)				
Connector Interface Feature		Meets requirement of Low Voltage Differential Signaling (LVDS) applications	Commonly available interface	Meets requirements of PoE++, CAT 5e and ANSI for resistivity to over voltages up to 2500V. Current rating at 1.5A per pin and available in 8 position (4 pair) and 12 positions	High power application with current rating of 16A to 20A/power contact, comes in 2,3 & 4 positions, with wire size from 18AWG to 12 AWG	Signal and power application	
Key Electrical Performance		Current Rating: 0.5A	Current Rating: 1A	Current rating 1.5A/ pin	Current Rating: 16A to 20A/power contact	Current Rating: 1.5A/ signal contact and 16A to 20A/power contact	
Key Environmental Performance		IP67, 720 hours salt spray resistance; Operating Temperature Range : −55°C to +85°C					
Mating Force		1.50N max./contact	22N max.	0.75N max./contact	29N max./contact	0.75N max./signal contact29N max./power contact	
Unmating Force		0.20N min./contact	9.8N	0.15N min./contact	4N min./contact	0.15N min. for signal4N min. for power	
Target Markets & Applications		• Fiber to the Antenna (FTTA) • 4G+, LTE+, 5G • Smart Radio, RRU/RRH • Broadband • Cellular Wireless Communication System • Distributed Antenna System (DAS) • Smart Grid Network • Small Cells • Portable Outdoor Device					
Board Connector	P/N	858F026B2120091	RJHSE-5480/ RJHSE-5380 (Tab up) RJLSE-43D86-01T (Tab down)	10133085-101LF	• 2 pos: 10133084–101LF • 3 pos: 10137559–102LF • 4 pos: 10137559–101LF	10131868-101LF	
	Description	26 Pin Receptacle Right Angle Solder to Board Connector	RJ45 socket has mating compatibility with standard RJ45 cable assemblies	Metral® HDXS board connector with 4 pair or 8 signal contacts	Power board connector with 2,3 & 4 contacts	Hybrid connector with 8 signal and 2 power contacts	
Plug Kit	P/N	10148427-101LF	10135742-101LF for tab up version 10143848-102LF for tab down version 10143848-101LF for tab down reverse lever	10135750-101LF	• 2 pos: 10135752– 101LF (Crimp), 10143758–101LF (Screw) • 3 Pos: 10139481– 102LF (Crimp), 10143762–102LF (Screw) • 4 Pos: 10139481– 101LF (Crimp), 10143762–101LF (Screw)	10135748-101LF	
	Description	MDR 26 OCTIS™ plug kit with Connector	OCTIS [™] plug kit without RJ45 connector	OCTIS™ plug kit with 4 pair or 8 position signal connector	OCTIS™ plug kit with 2, 3 or 4 position power contacts connector	OCTIS™ plug kit with hybrid of 8 position signal and 2 position power	
Finished Cable Assembly	P/N (Standard/ custom lengths, Double/open ended type)	-	10137111	10137115	10137117	10137118	

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FIBER OPTICS

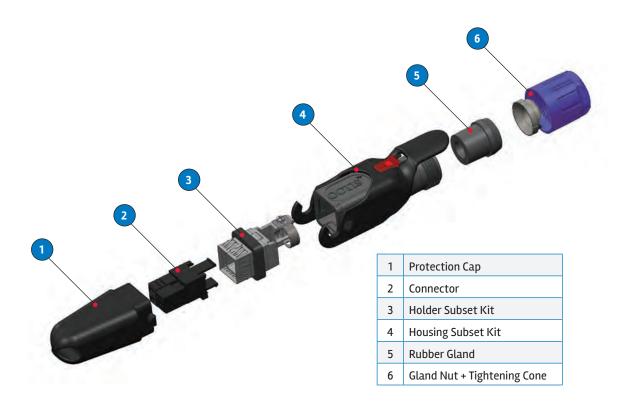
OCTIS™ offers a range of optical solutions meeting ever increasing bandwidth requirements. SFP version is interoperable with all types of SFP/SFP+ ports and suitable for high data rate applications over long lengths. QSFP version offers enhanced bandwidth (4X SFP/SFP+). In standard OCTIS™ product, transceiver moves outside the box saving significant board space and providing better thermal management. Solutions are also offered for applications in which transceiver is located inside radio with suitable adapters (duplex LC, MPO etc).

		SFP/SFP+	SFP/SFP+ (LC Duplex adaptor & MPO Adaptor)	QSFP to MPO		
Connector Interface				The state of the s		
Dimensions		94 x 26 x 27mm (Leng	120 x 41 x 30mm (Length x Width x Height)			
Connector Interface Feature		Interoperable with all types of SFP/SF rate applications over long lengths	Interoperable with all types of QSFP ports			
Key Electrical Performance		Power Supply Voltage: 3.3VPower Consumption: 0.25W (typ.)	Power Supply Voltage: 3.3V			
Key Environmental Performance		IP67, 720 hours salt spray resistance; Operating Temperature Range : -55°C to +85°C				
Target Markets & Applications		• Fiber to the Antenna (FTTA) • 4G+, LTE+, 5G • Smart Radio, RRU/RRH • Broadband • Cellular Wireless Communication System • Distributed Antenna System (DAS) • Smart Grid Network • Small Cells • Portable Outdoor Device				
Board Connector	P/N	SFP board (Edge) connector: 10122424-101LF Cage for connectors: • 10133694-101LF (PIP) • 10133694-102LF (Pressfit)	-	QSFP board connector: FS1-Z38- 20ZA-60 QSFP cage: 10147366-101LF		
Plug Kit	P/N	SFP OCTIS™ Plug Kit without transceiver: 10135746-101LF	Universal Plug Kit for LC Duplex & MPO without connector: 10145416-101LF Panel Bulk Head Receptacle for LC Duplex: 10145423-101LF Panel Bulk Head Receptacle for MPO: 10145295-101LF	Universal Plug Kit Wide Body, MPO to QSFP without connector: 10145289- 101LF Panel Bulk Head Receptacle MPO to QSFP: 10145292-101LF		

ACCESSORIES FOR SIGNAL, POWER AND FIBER OPTICS

Connector Accessories	Part Numbers
OCTIS™ Dust Cap 26mm	10138810-001
OCTIS™ EMI Cap 26mm	10138809-101LF
OCTIS™ Universal Plug Cap	10135726-001
OCTIS™ RJ 45 Plug Cap	10135728-001
OCTIS™ Plug to Plug LC duplex Adaptor	10148298-101LF
OCTIS™ Plug to Plug MPO Adaptor	10148112-101LF
OCTIS™ Plug to Plug SC Adaptor	10151342-101LF
OCTIS™ SFP Plug Extension kit	10146568-001
OCTIS™ EMI Cap 41mm	10143452-101LF

TYPICAL OCTIS™ FIELD TERMINABLE PLUG KIT COMPONENTS



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

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    10131868-101LF
    10135746-101LF
    10135748-101LF
    10135750-101LF
    10135752-101LF
    10133085-101LF

    10133084-101LF
    10137559-101LF
    10139481-101LF
    10135742-101LF
    10137559-102LF
    10139481-102LF

    10145295-101LF
    10145423-101LF
    10145416-101LF
    10145289-101LF
    10143758-101LF
    10143762-101LF

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    10145289-102LF
    10133085-102LF
    10133085-103LF
    10143848-102LF

    10131868-102LF
    10131868-103LF
    10139481-102NLF
    10143848-101LF
    10143759-101NLF
    10132120-101SLF

    10157347-101LF
    10157348-101LF
    10159426-101LF
    10159427-101LF
    10159556-L2000LF
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