

# 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.

- Transceiver moves outside the box, saving board space and providing better thermal management
- Lightning protection, EMI shielding features, and a rugged weather proof design makes it ideal for use in harsh environment applications
- Blind mate, float mount, color and physical coding features makes it easy to use and avoids mismatching
- In field termination or factory terminated and certified cable assembly options 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.



### 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 and <100mm length from panel pitch options available
- Double locking feature

### BENEFITS

- Suitable for most demanding environments. Lightning protection up to 15K Amps
- 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+, Signal, PoE (Power over Ethernet), 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

## TECHNICAL INFORMATION

<b>Connector Interface</b>		SFP/SFP+	RJ45	Signal/PoE Metral® HDXS	Power – Pwr Profile®	Hybrid – Signal & Power
						
<b>Dimensions</b>		94 x 26 x 27mm (Length x Width x Height)				
<b>Connector Interface Feature</b>		Interoperable with all types of SFP/SFP+ ports and suitable for high data rate applications over long lengths	Commonly available interface	Meets requirements of PoE++, CAT 6 and ANSI for resistivity to over voltages up to 2500V	High power application	Signal and power application
<b>Key Electrical Performance</b>		<ul style="list-style-type: none"> <li>Power Supply Voltage: 3.3V</li> <li>Power Consumption: 0.25W (typ.)</li> </ul>	Current Rating: 1A	Current Rating: 1.5A/pair	Current Rating: 16A to 20A/power contact	Current Rating: 1.5A/pair of signal contacts; 16A to 20A/power contact
<b>Key Environmental Performance</b>		IP67, 720 hours salt spray resistance; Operating Temperature Range : -55°C to +85°C				
<b>Mating Force</b>		-	22N max.	0.75N max./contact	29N max./contact	<ul style="list-style-type: none"> <li>0.75N max./signal contact</li> <li>29N max./power contact</li> </ul>
<b>Unmating Force</b>		-	9.8N	0.15N min./contact	4N min./contact	<ul style="list-style-type: none"> <li>0.15N min. for signal</li> <li>4N min. for power</li> </ul>
<b>Target Markets &amp; Applications</b>		<ul style="list-style-type: none"> <li>Fiber to the Antenna (FTTA) • 4G+, LTE+, 5G • Smart Radio, RRU/RRH • Broadband • Cellular Wireless Communication System • Distributed Antenna System (DAS) • Smart Grid Network • Industrial and Instrumentation • Industrial Outdoor Application • Portable Outdoor Device</li> </ul>				
<b>Board Connector</b>	P/N	-	-	10133085-101LF	10133084-101LF	10131868-101LF
	Description	Suitable for all SFP/SFP+ connectors	RJ45 socket has mating compatibility with standard RJ45 cable assemblies	Metral® HDXS board connector with 4 pair or 8 signal contacts	Metral® HDXS board connector with 2 power contacts	Metral® HDXS Hybrid connector with 8 signal and 2 power contacts
<b>Cable Connector Kit</b>	P/N (26mm pitch)	10135746-101LF	10135742-101LF	10135750-101LF	10135752-101LF	10135748-101LF
	Description	OCTIS™ plug kit without SFP connector	OCTIS™ plug kit without RJ45 connector	OCTIS™ plug kit with 4 pair or 8 position signal connector	OCTIS™ plug kit with 2 position power connector	OCTIS™ plug kit with hybrid of 8 position signal and 2 position power
<b>Field Installation Tool for Cable Connector Kit</b>		Direct insertion, no tool required	Use any RJ45 compatible crimping tool	Use hand crimping tool PN: 10135856-001	Use hand crimping tool PN: 10135701-001	Use hand crimping tool PN 10135856-001 (signal) and 10135701-001 (power)
<b>Finished Cable Assembly</b>	P/N (Standard/custom lengths, Double/open ended type)	10137109	10137111	10137115	10137117	10137118

**Disclaimer**

## HYBRID – SIGNAL & POWER CABLE CONNECTOR KIT

