

OpticSpectra



- ✓ Point to Point Optical Wireless Communication technology based on Light Fidelity using IR for transmission of data
- ✓ Designed, Developed and 'Made In India' 1+Gbps & 10 Gbps Optical Wireless Secure Communication Link Solution
- ✓ An effective replacement, wherever laying & maintenance of the OFC is not easy or feasible due to Hilly / Mountainous terrains, Forests, Mining areas, Water bodies or rivers, Right of Way (RoW) issues etc.
- ✓ High Bandwidth Optical Wireless Backhaul for 5G / 4G Network Infrastructure, Edge Networks, and Enterprise Connectivity



Highly Secured



License Free Spectrum



Low Power Consumption



Easy to Install

4G 5G

Faster Rollout of 4G & 5G services



All weather system

ROW

Overcome RoW permission



Environment Friendly

OWC

LiFi | FSO for High Speed Wireless Connectivity



Technical Specifications:

Series*	OpticSpectra 1G 1011	OpticSpectra 10G 10110
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Bandwidth Mbit/s Full Duplex	1 Gbps	10 Gbps
Link Distance (m) for BER<10 ⁻⁹	Up to 10000 Meters	Up to 5000 Meters
Latency time of Optical channel	< 5 ms	
Stabilization Method	Spatial Stabilization Method	
Adjustment horizontal angle, degrees	360	
Adjustment vertical angle, degrees	+/- 15	
OpticSpectra Indoor unit (OIU) indication	3 Indicators: Power, Link signals, Link direction	
MTU Size/Frame Rate Support	1518 Bytes	9600 Bytes
Data Ports	10/100/1000Base-Tx: 2 (RJ45) Ports, 1000Base-FX(SFP): 1 Port	10GBase(SFP+): 1 Port
Configuration Port	10/100 BASE-Tx, RJ45	
Management, monitoring type	Simple Network Management Protocol (SNMP) Trap & IP-Firmware	
Working wavelengths (nm)	1550nm for Information Channel, 785nm for Service Channel	
The average transmitter power (dBm)	+ 24	
Optical Element Defense	Aerodynamic protective cover	
Power Supply AC & DC	115/230V AC 50/60Hz & 48V DC	
Power consumption (Watts)	48	46



OpticSpectra Indoor & Outdoor Unit



Device Information:

Series*	OpticSpectra Outdoor Unit (OOU)	OpticSpectra Indoor Unit (OIU)
Dimensions (mm)	L490xW250xH285	L220xW445xH45
Weight (kg)	9.8	2.15
Operating temperature	-40°C to +60°C	+1°C to +42°C
OWC hybrid cable length (m)	85	
IP Ratings	IP65	
Standard Specification - compliance	IEEE 802.15.7 ITU-T G.653.b, G.654.b	
Visible light/IR safety standard	IEC 60825-1 Class 1M	



Phone: +64 21 105 4718
Email: info@9rayz.com
website: www.9rayz.com

**15 Jack Conway Avenue, Manukau City Centre,
Auckland 2104**

Manufacturer



Nav Wireless Technologies Pvt. Ltd.

C-5 LiFi, The First, Behind ITC Narmada,
Off Judges Bungalow Road,
Ahmedabad, India - 380015