



Proteus OIP

ANSI



All Outdoor IP Licensed Microwave Radio

6 to 38 GHz (licensed bands) 36 to 313 Mbps

Proteus OIP is Microwave Networks' complete outdoor Ethernet transport solution for networks with stringent zero footprint requirements. It is ideal for use in emerging 4G / LTE networks as well as in traditional Cellular, Enterprise, Utility, Railroad, and Public Safety systems.

By eliminating the need for rack space in shelters or enclosures, Proteus OIP offers the perfect solution for low impact installation while still providing carrier-grade service and reliability as well as a rapid ROI.

• Frequencies: 6, 7, 8, 11, 15, 18, 23, 26 & 38 GHz

• Data Rates: Up to 313 Mbps in 50 MHz

• Configurations: All Outdoor 1+0

• Features: Hitless Adaptive Code and Modulation

Automatic Transmit Power Control

RJ45 Gigabit Ethernet

Jumbo Frames to 9600 bytes



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System Specifications

Frequency Bands 6, 7, 8, 11, 15, 18, 23, 26 and 38 GHz

Modulation Formats QPSK, 16 QAM, 32 QAM, 64 QAM, 128 QAM, 256 QAM

Configuration 1+0

System Gain Enhancements ACM, ATPC, FEC

Frequency Stability ±7 ppm Frequency Resolution 250 kHz

Regulatory Compliance Radio: FCC Part 101; EMI/EMC; ETSI EN 301-489-1/-4,

Safety: EN 60950-1/-22; Radiation Safety: ETSI EN 50385

Mean Time Between Failures >30 years

Payload Parameters

Payload Type/Format Ethernet, VLAN

Payload Latency <200 μsec/64 byte packets, <300μsec/1518 byte packets

QoS, VLAN, Q-in-Q IEEE 802.1p, IEEE 802.1Q

Jumbo Frame Up to 9600 bytes

Interfaces

Payload Interface Electrical: 10/100/1000 Base-T - RJ45 w/ Power Over Ethernet

Management Interface: 10/100 BaseT - RJ45 w/ Power Over Ethernet

Antenna Interface Push-fit direct mount

AGC voltage (RSSI) BNC

Ground M5 Screw Lug

Power

Voltage -30 to -60 VDC
Power Consumption 80W maximum

Power Delivery Power Over Ethernet delivered on Data and/or management cable

Power over Ethernet Unit Indoor/outdoor mountable DC power injector installed in-line with data or network cable, or both.

Power Connector (on Power Over Ethernet) 3-pin screw plug on Power Over Ethernet Unit

Mechanical & Environmental

Outdoor Unit Dimensions, mm (D x H) 267 (diameter) x 140 (height)

Outdoor Unit Weight (kg) <6

Outdoor Unit Temperature Range -33°C to +55°C, full specifications

PoE Unit Dimensions, mm (L x W x D) 170 x 150 x 39

PoE Unit Weight (kg) 0.5

PoE Unit Temperature Range -33°C to +55°C, full specifications

