

30 kilometres Secure Range

Wire Speed Gigabit Throughput (10 GigE)



Spectrum efficient links

The Viseum Radio Series, Long Range and Extended Long Range antenna, includes QPSK modulation for enhanced spectrum efficiency. Gives the highest 70/80 GHz performance available.

Applications

LTE/4/5G/WiMAX backhaul

Remote Storage Access

Disaster Recovery

Redundant Access/Network Diversity

Mobile backhaul

Local Area Network Extension

Metropolitan Area Networks (MAN)

Homeland Security

Features & performance

- Spectrum efficient QPSK modulation
- Full duplex wire speed Gigabit Ethernet
- Field changeable GigE interface
- Rapid Field Replaceable unit with direct slip-fit antenna
- Frequency agile
- Rapid Port Shutdown
- Typical link distances exceed 3 mi / 5 km for 99.99% availability
- Low Latency for multimedia applications (<5µs)
- Lightweight, small footprint, all outdoor design
- Transparently handles multi-media jumbo packets
- Transparent to Ethernet timing protocols (SyncE, IEEE 1588v2)
- Supports multiple network architectures including - Point-to-Point, Mesh/Ring and Repeaters

System Parameters

Frequency Band	71-76 GHz / 81-86 GHz
RF Interface	FDD / frequency agile (tunable channels)
Modulation	QPSK
Transmit Power Output	+22 dBm
Channel Bandwidth	1000 MHz
ATPC Range	0-30 dB
Low Signal Receiver Threshold (BER @ 1x10 ⁻⁶)	-66 dBm
Configurations	Non-Protected, Hot Standby, Repeater, Mesh
Latency	<5µs
Forward Error Correction	Reed Solomon

Innubrary

Data Rate	1.25 Gbps full duplex (Ethernet)
Standards Compliance	IEEE 802.3z, 802.3ab
Interface Options	1000BaseT - Copper RJ-45 (100m) 1000BaseSX - MM Fiber LC connector (550m) 1000BaseLX - SM Fiber LC connector (5000m)

Electrical / Environmental

Input Voltage - Power	-48 VDC / PoE @ 44 W
Temperature Range	-49°F to +140°F / -45°C to +60°C
Altitude	15000 ft / 4500 m
Humidity	All Weather Outdoor Unit

Management

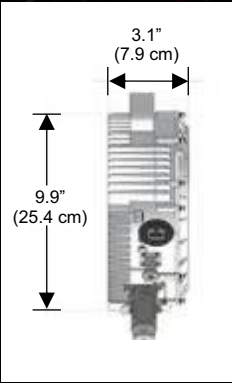
Physical Interface	10/100BaseTX - Copper RJ-45 (100m)
Craft Interface	Embedded web based server
EMS	SNMPv1

Physical

Weight	8.5 lbs (3.9 kg)
Dimensions	Diameter 9.99 in (25.4 cm) x Height 3.12 in (7.9 cm)
Antenna	1 ft (0.3 m) / 45 dBi gain or 2 ft (0.6 m) / 52 dBi gain Fine adjust pole mount fitting 2.3 - 4.5 in. OD masts

Regulatory

US	FCC 1.1310 RF MPE limits, FCC Part 101 IEC 60950-1
Europe	EN 302 217-3



Visit us at <https://www.viseum.co.uk>

Viseum IMCs have been granted 20 years patent protection

Any non-Viseum branded IMC system will be noticeably inferior and an illegal copy in breach of International Law

Patent Portfolio - European EP 1 579 399 | United States of America US 7,952,608 B2 | International PCT/GB 03/04691