

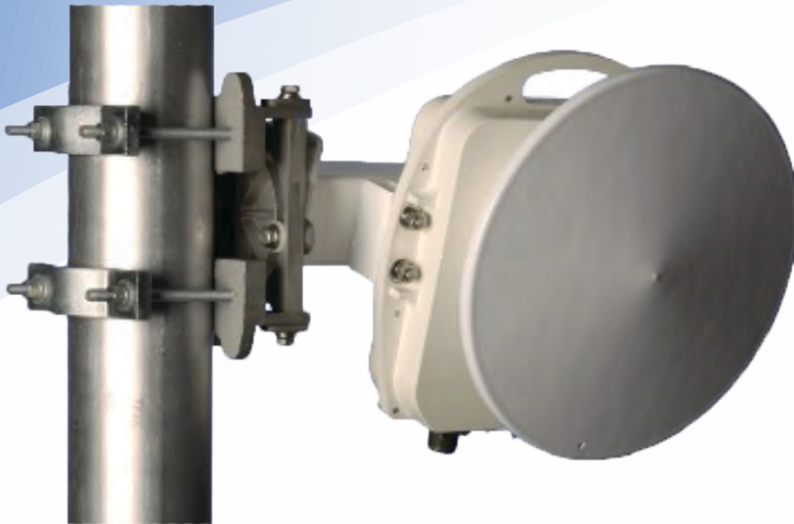
VidOwave 60G

Point to Point 57-64 GHz Wireless Ethernet



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Multi Mode or Single Mode
Ethernet Links for 1 KM with
12-inch Parabolic Antennas

VIDOWAVE 60 GHz SUMMARY:

The VidOwave 60G is remarkable for point to point wireless ethernet communications. Operating on the V-Band the VidOwave 60G enables throughput at 1.25 Gbps to 1 KM. Single or Multi Mode Fiber Optic Interfaces are available.

The VidOwave 60G was designed for the 60 GHz spectrum for multiple reasons. This spectrum is unlicensed which allows for a lower or non-existent recurring cost. Also, due to the atmospheric characteristics of 60 GHz, the VidOwave 60G is innately resistant to interference.

The VidOwave family of wireless ethernet links has a proven record of performance on mission-critical events in Iraq and Afghanistan. The Latency of the VidOwave is next to zero at 2 nS. The VidOwave is been 100% bench/range tested for dynamic range and bit errors. The VidOwave is on it's 3rd Generation, meets all industry standard features, and has improved antenna mount/pointing hardware.

HIGHLIGHTS:

- High Performance 1.25Gbps V-Band
- Allows for Unlicensed Deployment
- Low interference due to spectrum nature
- Extremely Low Latency of approx 2 nS
- Proven mission-critical performance
- 100% bench/range tested
- Improved antenna hardware
- Industry standard features included
- On 3rd generation, thousands deployed



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Specifications:

Performance

Frequency	57.0 to 64.0 GHz
RF Injection Power into Antenna	10 mW (+10 dBm)
Receive Sensitivity _{10-12 BER}	-64 dBm
Latency Back to Back	4 nanoseconds
Antenna Type	Integral 13-in. parabolic
Antenna Gain	41 dBi
3-dB Beam Width	0.9 degrees

Interfaces

Payload Interface	Gigabit Ethernet, 1000Base-SX, 850 nm, FC connector
Management	RJ-45
Installation	10/100 BaseT, RJ-45 modular jack
Power	MIL-C-5015-type connector for 12- to 16-AWG, three-conductor power cable

Management

Installation Tools	Built-in web browser-based GUI and SNMP agent
Remote Monitoring	via SNMP or Web browser-based GUI, self-contained in radio
Electrical	UL - UL60950, EN-60950-1, IEC 609050-1
EMC	EN 55022, Emissions Class A, EN 301 489 Immunity
Laser Safety	CDRH - Class 1 (21 CFR 1040 per Laser Notice No. 50)

Power

Input Voltage	-48 VDC nominal (-40 to -57 VDC)
Power	Consumption 70W Max. 40W operating typical
Maximum Input Current	1.5 Amps maximum at turn on, heaters for cold start

Environmental & Mechanical

Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Storage Temperature	-30°C to 85°C (-22°F to 185°F)
Relative Humidity	Up to 95%, non-condensing
Transceiver H x W x D	13 x 13 x 14.7 in. (33 x 33 x 37.3 cm)
Transceiver Weight	18 lbs (8 kg) including antenna and mount

ORDERING INFORMATION	Single Duplex Ethernet 57-64GHz Radio Links (Includes mounting hardware for 2.5 - 5.0" OD pipe)
VidOwave 60G-112MM	1.25Gbps V-Band Duplex Ethernet Link with 12" Parabolic Antennas, Multi-Mode Fiber Optic Interfaces. Nearly 1 KM
VidOwave 60G-112SM	Same as above with Single-Mode Fiber Optic Interfaces
<i>Optional Accessories:</i>	
AC-VOW12 AC Power Supply (2 units required per link)	
VidOwave Targeting Kit Targeting Kit for VidOwave Series Links, includes: Sighting Scopes, Installed Mounting Rails and Zeroing by Factory Staff. One kit per link.	

