

VidOwave 70G

Point to Point 71-76 GHz Wireless Ethernet



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Multi Mode or Single Mode
12" or 24" Parabolic Antennas
Ethernet Links for 2 - 5 KM

Up to 10 KM under ideal conditions

VIDOWAVE 70G SUMMARY:

The VidOwave 70G is remarkable for point to point wireless ethernet communications. Operating on the E-Band the VidOwave 70G enables throughput at 1.25 Gbps for 2 to 5 KM. If conditions are ideal, range can potentially reach 10 KM with an added feature. Single or Multi Mode Fiber Optic Interfaces are available.

The VidOwave 70G comes with 12 inch or 24 inch parabolic antennas, depending on the range you need for your application. This 71-76 GHz spectrum is lightly-licensed which allows for a lower recurring cost.

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 E-Band
- Allows for Lightly-licensed Deployment
- Multiple antenna & polarization options
- 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	71.0 to 76.0 GHz
RF Injection Power into Antenna	-1 version +17 to +20 dBm -2 version +20 to +23 dBm -3 version +23 to +26 dBm
Receive Sensitivity 10-12 BER	-64 dBm
Latency Back to Back	4 nanoseconds
Antenna Type	12-in. or 24-in. parabolic, Slip Fit Clip On
Antenna Gain	12" : 44 dBi 24" : 50 dBi on 24-in.
3-dB Beam Width	12" : 0.8 degrees 24" : 0.45 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 60950-1
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	12" : 3 x 13 x 14.7 in. (33 x 33 x 37.3 cm) 24" : 25 x 25 x 14.7 in. (64.5 x 64.5 x 37.3 cm)
Transceiver Weight	12" : 18 lbs (8 kg) with antenna & mount 24" : 22lbs (10 kg) with antenna and mount

ORDERING INFORMATION		Single Duplex Ethernet 71-76 GHz Radio Links (Includes mounting hardware for 2.5 - 5.0" OD pipe)	
VidOwave 70G-124MM	1.25Gbps E-Band Duplex Ethernet Link with 24-Inch Parabolic Antennas and Multi-Mode Fiber Optic Interfaces. 2 - 5 KM (8 - 10 KM Range possible under ideal conditions with added feature)		
VidOwave 70G-124SM	Same as above with Single-Mode Fiber Optic Interfaces		
VidOwave 70G-112MM	1.25Gbps E-Band Duplex Ethernet Link with 12-Inch Parabolic Antennas and Multi-Mode Fiber Optic Interfaces. Nearly 2 Kilometer Range		
VidOwave 70G-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.		

