



G-Wave ULTRA Series



Specifications

Radio

Frequency range	4.900 - 7.100 GHz (model dependent)
Channel size	20, 40, 80, 160 MHz
Transmit power	Up to 27 dBm
Receiver sensitivity	Down to -93 dBm
Modulation type	OFDM
Modulation-coding schemes	BPSK $\frac{1}{2}$.. QAM4096 $\frac{5}{6}$
Forward error correction	LDPC
MIMO	SU-MIMO 2x2
Duplexing	Time-division duplex (TDD)
Air protocol	Proprietary non-collision protocol
Regulatory	DFS, Radar detection, LBT
Power control	Automatic TPC

Networking

Net throughput	2+ Gbps
Supported protocols	VLAN, Q-in-Q
QoS	8 queues, 802.1p, DSCP, traffic shaping
Management	IPv4/IPv6 dual stack, Web GUI, SNMP v1/2c/3

Antenna

Antenna configurations	• 19/22/23/29 dBi integrated dual-pol antenna • 2x N-type (F) connectors for an external antenna
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Wired Interfaces

Primary Interface	10/100/1000/2500 Base-T, PoE In (RJ-45)
Secondary Interface	10/100/1000 Base-T, PoE Out (RJ-45)
Optical Interface	SFP, 1000 Base-X (single- and multimode modules supported)
DC In	Auxiliary DC power input

Power

Power input method, voltage	● PoE 802.3bt, isolated $\pm 42.. \pm 57$ VDC ● DC in, isolated $\pm 12.. \pm 57$ VDC
Power output method, voltage	PoE 802.3 at or passive PoE, 48 VDC, up to 25 W
Power consumption	Up to 60 W (including PoE out budget)
Power injector	90..240 VAC / 50..60 Hz

Environmental

Operating temperature range	-40..+60°C
Humidity	0..95 % (non-condensing)
Dust and water protection	IP66, IP67



Model Range

Part Number	Description	Size, Weight
GW-U56-E	2x N-type (F) PTP unit, 4.9-7.1 GHz	• L 209 x W 206 x H 86 mm • 1.4 kg
GW-U5-19	19 dBi integrated antenna PTP unit, 4.9-6.5 GHz	• L 209 x W 206 x H 70 mm • 1.2 kg
GW-U6-22	22 dBi integrated antenna PTP unit, 6.0-7.1 GHz	• L 305 x W 305 x H 66 mm • 1.8 kg
GW-U5-23	23 dBi integrated antenna PTP unit, 4.9-6.0 GHz	• L 305 x W 305 x H 66 mm • 1.8 kg
GW-U5-29	29 dBi integrated antenna PTP unit, 4.9-6.5 GHz	• L 600 x W 600 x H 70 mm • 6 kg

