



Flex4G-LITE (ANSI)

Spectrum-Efficient 3Gbps Links

The BridgeWave **Flex4G-LITE (ANSI)** is an all outdoor, IP radio system operating in the 71-86GHz frequency band with capacities up to 3Gbps using 64QAM modulation. Supporting both POE and direct DC feed, this compact radio system features carrier-grade Ethernet switch functionality, hitless adaptive rate modulation, and low power consumption.

To reduce deployment costs and improve field flexibility, BridgeWave **Flex4G-LITE (ANSI)** includes a 2.5GbE port that can also be configured for CPRI operation.

BridgeWave **Flex4G-LITE (ANSI)** is available with slip mount 30cm, 60cm, or 90cm antennas for ultra-long range.

The BridgeWave **Flex4G-LITE (ANSI)** enables network operators to meet exponentially-increasing backhaul requirements and is field-proven with thousands of links already in use worldwide.

Flex4G-LITE (ANSI)

Performance

- Spectrum efficient using 64QAM in 250, 500, and 750MHz wide channels
- Full-duplex providing up to 3Gbps upstream and downstream
- Hitless adaptive rate and modulation
- QPSK/8PSK/16/32/64QAM modulation support
- Highest system gain
- Internal carrier grade L2 switch
- Built-in 2.5GbE support
- Optional CPRI support (Modes 1 - 4)
- SyncE and IEEE1588v2 compliant
- Power over Ethernet and Direct DC
- Extreme ranges supported with optional 30cm (43.8dBi), 60cm (51dBi), and 90cm (54dBi) external slip-fit antennas
- Small form factor and lightweight
- Quick and simple deployment

Applications

- 4G/LTE backhaul for access and aggregation
- Last-mile fiber extension for enterprises
- Temporary high capacity links for disaster recovery
- LAN extensions

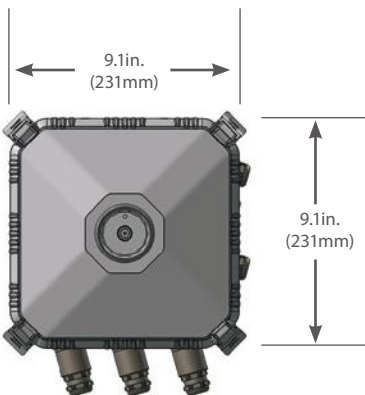
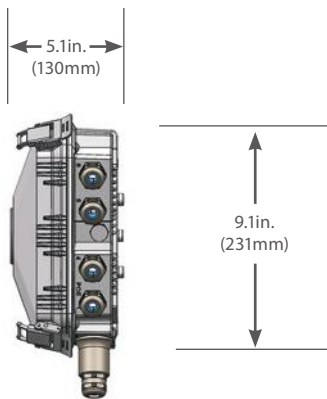


BridgeWave
COMMUNICATIONS

FLEX4G-LITE (ANSI) SPECIFICATIONS

Dimensions

Flex4G-LITE (ANSI)



*Dimensions are for Flex4G-LITE only
without installed parabolic antenna.

Data Throughput Rate	Up to 3000Mbps per 1+0 terminal, Up to 6000Mbps per 2+0 terminal				
Configurations	1+0 Non-Protected; 2+0 Dual Path Transmission utilizing Orthogonal Mode Transducer, OMT				
Frequency Range	71-76GHz / 81-86GHz				
Air Interface	Full Duplex FDD				
RF Channel Tuning	Frequency Agile in 62.5MHz steps				
Channel Bandwidths	250, 500, and 750MHz				
Management	In-Band				
Latency	<50µs @ 64QAM with 1024 byte packets				
Modulation	QPSK/8PSK/32QAM/64QAM Hitless Adaptive Code and Modulation				
System Performance	Modulation	Throughput	System Gain		
			43.8 dBi Antenna	51 dBi Antenna	54 dBi Antenna
250MHz Channel	64QAM	1000Mbps	161.6dB	176.0dB	182.0dB
	32QAM	833Mbps	165.6dB	180.0dB	186.0dB
	16QAM	666Mbps	170.6dB	185.0dB	191.0dB
	8PSK	500Mbps	173.6dB	188.0dB	194.0dB
	QPSK	333/166Mbps	179.6/182.6dB	194.0/197.0dB	200.0/203.0dB
500MHz Channel	64QAM	2000Mbps	158.6dB	173.0dB	179.0dB
	32QAM	1666Mbps	162.6dB	177.0dB	183.0dB
	16QAM	1333Mbps	167.6dB	182.0dB	188.0dB
	8PSK	1000Mbps	170.6dB	185.0dB	191.0dB
	QPSK	666/333/166Mbps	176.6/179.6/182.6dB	191.0/194.0/197.0dB	197.0/200.0/203.0dB
750MHz Channel	64QAM	3000Mbps	156.6dB	171.0dB	177.0dB
	32QAM	2500Mbps	160.6dB	175.0dB	181.0dB
	16QAM	2000Mbps	165.6dB	180.0dB	186.0dB
	8PSK	1500Mbps	170.6dB	185.0dB	191.0dB
	QPSK	1000/666/333/166Mbps	174.6/176.6/179.6/182.6dB	189.0/191.0/194.0/197.0dB	195.0/197.0/200.0/203.0dB
Interfaces					
		Ethernet: 2 x SFPs for 1 x 2.5G/1G & 1 x 1G SFP + 4 x RJ45 10/100/1000Base-T CPRI: 1 x Option 1 to 4 (614.4Mbps to 3072.0Mbps)			
Ethernet					
Max Packet Size	9600 bytes (Jumbo Frame Compatible)				
Ethernet Timing and Synchronization	SyncE (G.8261), IEEE 1588V2 Transparent, Boundary, and Ordinary Clock support				
Features	- IPv6, IPv4 - L2- 8192 MAC Address 4096 VLAN (IEEE 802.1Q) - VLAN tag translation on ingress or egress - Provider Bridging (IEEE 802.1ad, Q-in-Q) - RSTP / MSTP				
Ethernet QoS					
Classification	8 QoS queues per port with SP or DWRR scheduling - TCAM classification and remarking - DSCP translation, ingress and egress - Per Queues and Per Port policing and shaping - Full Duplex Flow control				
Protection	ITU-T G.8032 Ring				
OAM	ITU-T Y.1731				
Antennas					
	- External 30cm, 43.8dBi gain, 0.9° beamwidth - External 60cm, 51 dBi gain, 0.4° beamwidth - External 90cm, 54 dBi gain, 0.3° beamwidth				
Mechanical and Environmental					
Input Power Requirements	-48VDC, PoE, 30W typical (32W Max) power consumption				
Weight	3.2kg / 7.1lb				
Temperature Range	-45°C to +60°C (-58° to +140° F)				
Weather	IP67 / All Weather				
Safety	IEC 60950-1, -22				
Regulatory RF Certification	US FCC Part 101, FCC Part 15B; ETSI EN 302 217				

Note: Specifications are typical and subject to change without notice.

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