

XR1

"ROOFUS MAXIMUS"



XNET

Rooftop Node Specifications



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COMMUNICATION COMPONENTS INC.
BLINQ)))
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"ROOFUS MAXIMUS"



All-In-One Solution

Ease of Deployment

**CBRS Category B
Certified**

**Supports Carrier
Aggregation**

**3X COVERAGE
& CAPACITY AT
1/3 THE COST**

The XR1 is an integrated wireless solution that is easy to set up, fits anywhere, and provides incredible network capacity. It is a tri-sector and tri-carrier Long-Term Evolution (LTE) Evolved Node B (eNB) with the capability to operate in the following bands: 42, 43 and 48 (Citizens Broadband Radio Service or CBRS).

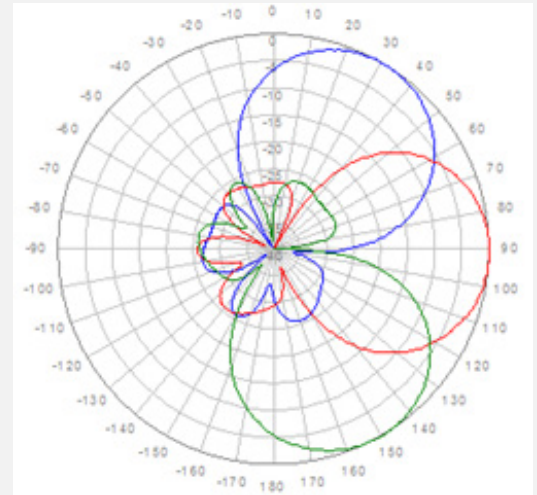
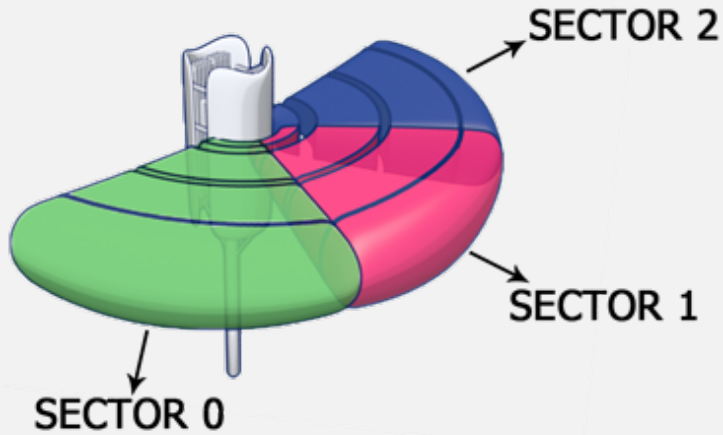
KEY FEATURES

- 'All-In-One' Fully Integrated Solution
- CBRS Category B Certified
- Supports all LTE TDD Configurations
- Supports 10 MHz and 20 MHz
- 180° Azimuth Coverage per antenna
- Features Standard 2x2 MIMO Configurations
- Uplink Supports IPv6
- Supports Mobility

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Rooftop Node
Datasheet



MODELS

FW3-B48-00-HP-NA / FW3-B42-43-HP-EU

	FW3-B48-00-HP-NA	FW3-B42-43-HP-EU
RADIO SPECIFICATION		
Frequency Band	3.55-3.70 GHz (LTE Band 48 - CBRS)	3.40-3.80 GHz (LTE Band 42/43)
Transmit Power (Max.)	33 dBm/Port (+ 3 dBm for Aggregate Power)	29 dBm/Port (+ 3 dBm for Aggregate Power)
EIRP (Max.)	53 dBm EIRP/Sector	
Channel Bandwidth	10, 20 MHz	
MIMO	2TX x 2RX per Sector	
LTE Compliance	3GPP Release 10 (SW upgrade to Release 13)	
PERFORMANCE & ATTRIBUTES		
Number of UEs Supported	Up to 288 UEs per Base Unit	
Carrier Aggregation	Supports contiguous and non-contiguous 2CC, 3CC Covers full CBRS band (150 MHz)	
Throughput DL TDD Config 2-7	110 Mbps per Carrier 330 Mbps per Base Unit - 3 x Carriers	
Throughput UL TDD Config 2-7	11 Mbps per Carrier 33 Mbps per Base unit - 3 x Carriers	
Operating Mode	TD-LTE	
Power Consumption	180 W maximum	
Power	48 VDC	
Connectivity	Default: 1 x Copper 1000BaseT; Optional: 1 x SFP	
Synchronization	Integral GPS antenna (GPS, GLONASS, BeiDou) Optional: External GPS	
Citizens Broadband Radio Service (CBRS)	CBSD Category B Certified	

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	FW3-B48-00-HP-NA	FW3-B42-43-HP-EU
ANTENNA SPECIFICATIONS BANDS 42/43, 48		
Gain	17 dBi	
Azimuth Coverage (-5 dB)	180°	
Azimuth Beamwidth (-3 dB)	45°	
Azimuth Beamwidth (-5 dB)	60°	
Elevation Beamwidth (-3 dB)	10°	
Electrical Downtilt	0°	
Azimuth Sidelobe	< -25 dB (Typ.)	
Front-to-Back Ratio @180 Degrees	> 30 dB (Typ.)	
Co-Polar Port-to-Port Isolation	15 dB (Typ.)	
Cross-Polarization Port-to-Port Isolation	> 20 dB (Typ.)	
Max. Voltage Standing Wave Ratio (VSWR)	1.5:1	
Polarization	Dual Pol 45°	
Lightning Protection	DC Ground	
MECHANICAL		
Dimensions (L x W x D)	13.78" x 22.4" x 8.9" (350 mm x 570 mm x 227 mm)	
Survival Wind Speed	Up to 124 mph (200 kph)	
Weight	28.7 lbs. (13.0 Kg)	
Operational Temperature	-40 °F to 140 °F (-40 °C to 60 °C)	
Mechanical Uptilt/Downtilt	0° - 10°	