



WIRELESS SOLUTIONS FOR  
**ANYONE, ANYWHERE.**



FW-600

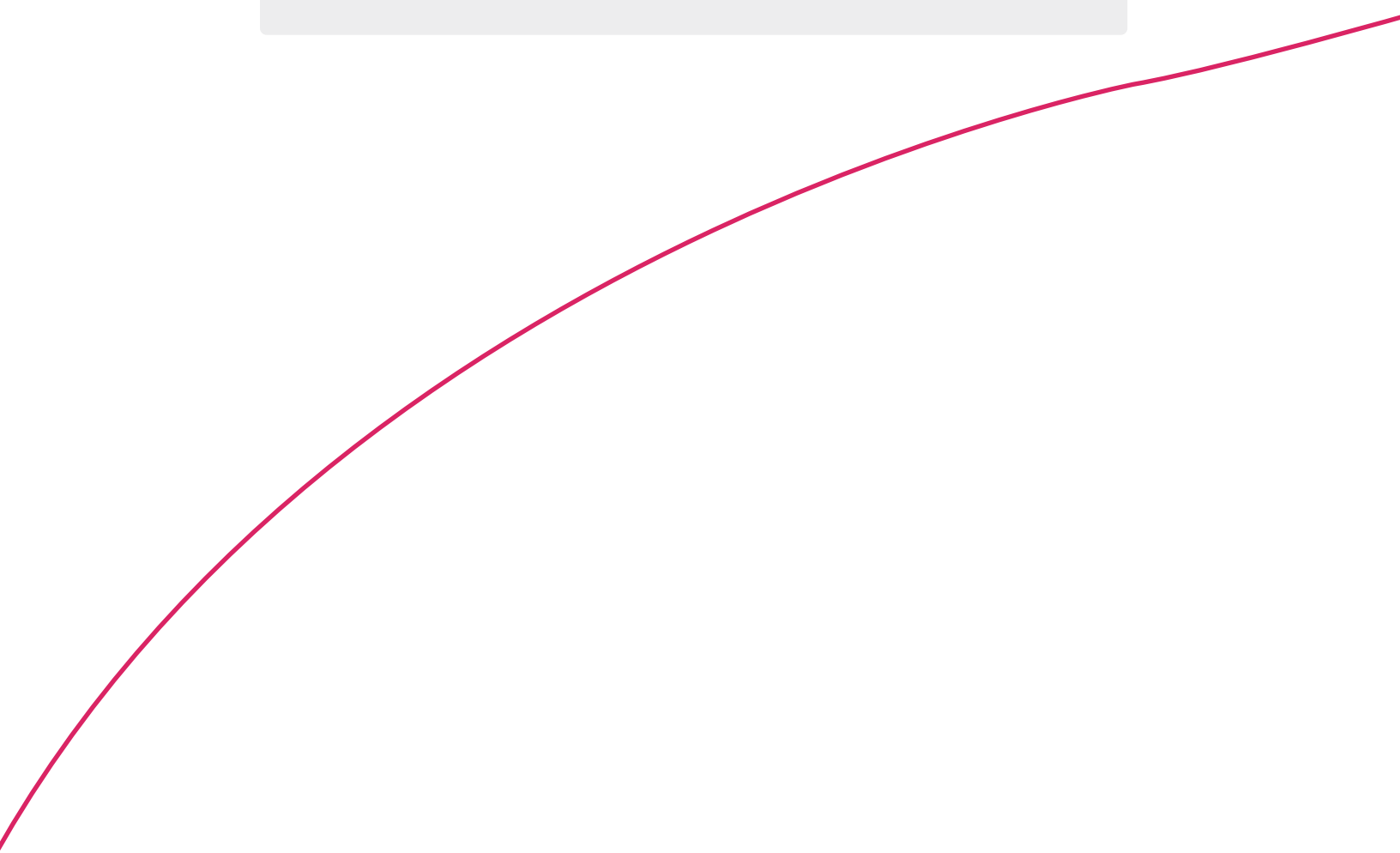
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# YOUR NETWORK. OUR SOLUTIONS.

## About BLiNQ Networks

BLiNQ Networks is a pioneer manufacturer of CBRS-certified fixed access and mobile broadband wireless equipment, providing industry-leading price & performance in LTE and 5G-ready solutions.



## FW-600 B42/43/48

SUMMARY

COMMUNICATION COMPONENTS, INC.  
**BLINQ**  
NETWORKS

**ADTRAN**

# FW-600



## A POWERFUL NETWORK SOLUTION THAT PUSHES BOUNDARIES

The FW-600 is an ultra-high capacity, all integrated multicarrier LTE base station system designed as a response to today's broadband connectivity needs in rural and dense suburban markets.

This powerful base station comes in either a single or dual band architecture and can easily match or out-perform most mMIMO commercial solutions. Paired with passive beamforming antenna systems, the FW-600 brings spectral efficiency and capacity to new horizons.

# FW-600 B42/43/48 SINGLE BAND ARCHITECTURE

## SUMMARY



## THE FW-600 B42/43, B48 SINGLE BAND ARCHITECTURE FEATURES:

- 3 Beams x 3CC (per each beam)
- Peak: 1548 Mbps/Sector
- 4 Sectors Architecture
- Peak: 6 Gbps

The FW-600 product can also pair B48 and B46 by a different sku. Contact our sales team for more information.



## NOTE

- Carrier aggregation is contiguous and non-contiguous covering entire band without IBW window restrictions.
- Function of different configurations and band combo FW-600 can scale from 2 Gbps to 12 Gbps.

# FW-600

## SPECIFICATIONS BASIC MULTI ENB BBU/RRH UNIT



MODEL SERIES		
	<b>BASE STATION</b>	FW-600 B42/43, 48
RADIO SPECIFICATION		
	<b>Frequency Band</b>	TDD LTE Bands B42/43, 48
	<b>EIRP</b>	B48: 53 dBm/1CC + 3 dB per added CC B42/43: 62 dBm/1CC
	<b>Channel Bandwidth</b>	10, 20 MHz (15 MHz)
	<b>MIMO</b>	6Tx x 6Rx (several possible MIMO configurations)
	<b>LTE Compliance</b>	3GPP Release 10 (SW upgrade to Release 13)
MECHANICAL		
	<b>Dimensions (LxWxD) Base Unit</b>	19.4" x 12" x 8.4" (492 mm x 304 mm x 160 mm)
	<b>Survival Wind Speed</b>	>125 mph (FW-600: >200 kph)
	<b>Weight</b>	25.0 Kg
	<b>Bracket Weight</b>	33.1 lbs (15 kg) – Supports up to 3 x FW-600 units
	<b>Operational Temperature</b>	-40 °F to 140 °F (-40 °C to 60 °C)
PERFORMANCE & ATTRIBUTES		
	<b>Connected/Active UEs</b>	Up to 576 active users per Base Unit (can be SW upgraded)
	<b>Throughput DL TDD Config 2-7</b>	3 x 140 Mbps – 1CC vENB ( 1 x Antenna* + 1 x FW-600) 9 x 140 Mbps – 3CC vENB ( 1 x Antenna* + 3 x FW-600)
	<b>Throughput UL TDD Config 2-7</b>	3 x 32 Mbps - 1CC UL ( 1 x Antenna + 1 x FW-600) 6 x 32 Mbps - 2CC UL ( 1 x Antenna + 3 x FW-600)
	<b>Operating Mode</b>	TD-LTE supports all standard frame configurations
	<b>Power Consumption</b>	480 W (Band 42/43) 180 W (Band 48)
	<b>Power</b>	48V DC
	<b>Connectivity</b>	1 x Copper 1000BaseT 1 x SFP 1 x PPS TNC Connector 6 x 2.2-5 RF Connectors
	<b>Synchronization</b>	Integral GPS receiver (GPS GLONASS BeiDou), 1588v2
	<b>Embedded EPC</b>	Software Option
OA&M		
	<b>Configuration</b>	WebUI / CLI, Radio and Ethernet performance monitoring
	<b>EMS Integration</b>	SNMP v2c/v3
	<b>OAM Protocols</b>	Netconf, HTTP(S), TCP/IP, UDP, (S)FTP, SSH, TR-069/TR-196

\* 6 ports antenna

# FW-600

## PROPOSED DEPLOYMENT CONFIGURATIONS



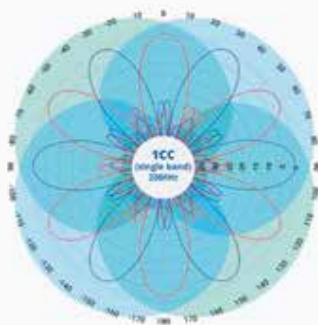
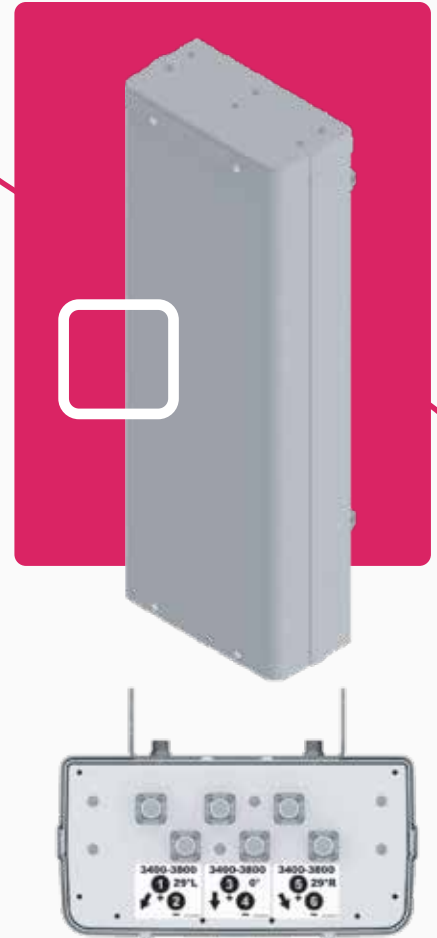
Here is one of the recommended antenna pairings and its deployment configuration.

# MBA3F-H3A:

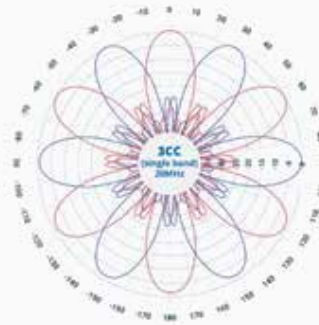
## THREE-BEAM SPECIAL EVENTS ANTENNA

This CCI Multibeam Antenna contains Three Independent LTE Optimized Beams with 2x2 MIMO capability. It enables maximum spectrum re-use by sectorization, greatly increasing network capacity.

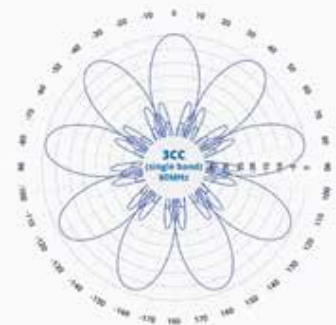
Classic configuration mode is either 3 or 4 sectors each equipped with a 3 Beam Antenna connected to RRH required configuration.



1CC = 20 MHz (f1)  
1CC = 20 MHz (f1)



2CC = 40 MHz (f1, f2)  
1CC = 20 MHz (f3)



3CC = 60 MHz (f1, f2, f3)

# FW-600 B42/43, B48

## ANTENNA SPECIFICATIONS



ELECTRICAL		
	<b>Ports</b>	6 x High Band Ports for 3400-3800 MHz
	<b>Frequency Range</b>	3400-3800 MHz
	<b>Gain*</b>	22.3 dBi
	<b>Azimuth Beamwidth (-3dB)</b>	17.6°
	<b>Azimuth Beam cross-over</b>	11.1 dB
	<b>Elevation Beamwidth (-3dB)</b>	5.4°
	<b>Electrical Downtilt</b>	4°
	<b>Elevation Sidelobes (1st Upper)</b>	< -22 dB
	<b>Front-to-Back Ratio @180°</b>	> 35 dB
	<b>Cross-Polar Discrimination (at Peak)</b>	> 18 dB
	<b>Cross-Polar Port-to-Port Isolation</b>	> 25 dB
	<b>Interbeam Co-Pol Isolation (Adjacent Beams)</b>	> 25 dB
	<b>Interbeam Co-Pol Isolation (Non-Adjacent Beams) (Worse Case)</b>	> 15 dB
	<b>Voltage Standing Wave Ratio (VSWR)</b>	< 1.5:1
	<b>Passive Intermodulation (2x20W)</b>	≤ -153 dBc
	<b>Input Power Continuous Wave (CW)</b>	200 watts
	<b>Polarization</b>	Dual Pol 45°
	<b>Input Impedance</b>	50 ohms
	<b>Lightning Protection</b>	DC Ground
*Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6.		
MECHANICAL		
	<b>Dimensions (LxWxD)</b>	35.6" x 12.9" x 6.3" (904 mm x 328 mm x 160 mm)
	<b>Survival Wind Speed</b>	> 150 mph (> 240 km/hr)
	<b>Front Wind load</b>	99 lbs (440 N) @ 100 mph (161 kph)
	<b>Side Wind Load</b>	53 lbs (237 N) @ 100 mph (161 kph)
	<b>Equivalent Flat Plate Area</b>	3.9 ft² (0.4 m²)
	<b>Weight*</b>	22.5 lbs (10.2 kg)
	<b>Connector</b>	6 x 4.3-10 female
	<b>Mounting Pole</b>	2 to 5 in (5 to 12 cm)
* Weight excludes mounting		



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**CONTACT US**

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