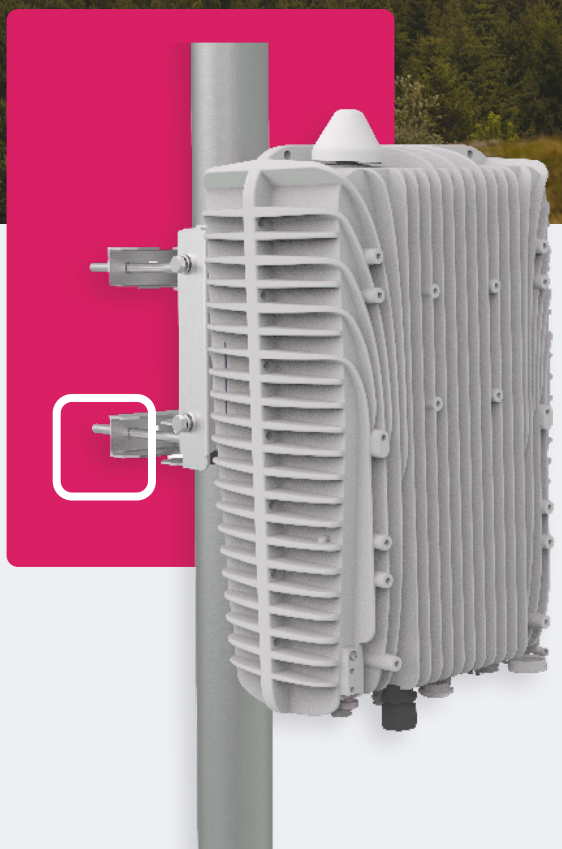
COMMUNICATION COMPONENTS INC.
BLiNQ NETWORKS

WIRELESS SOLUTIONS FOR

ANYONE, ANYWHERE.



FW-600

FW-600

B42/43/48

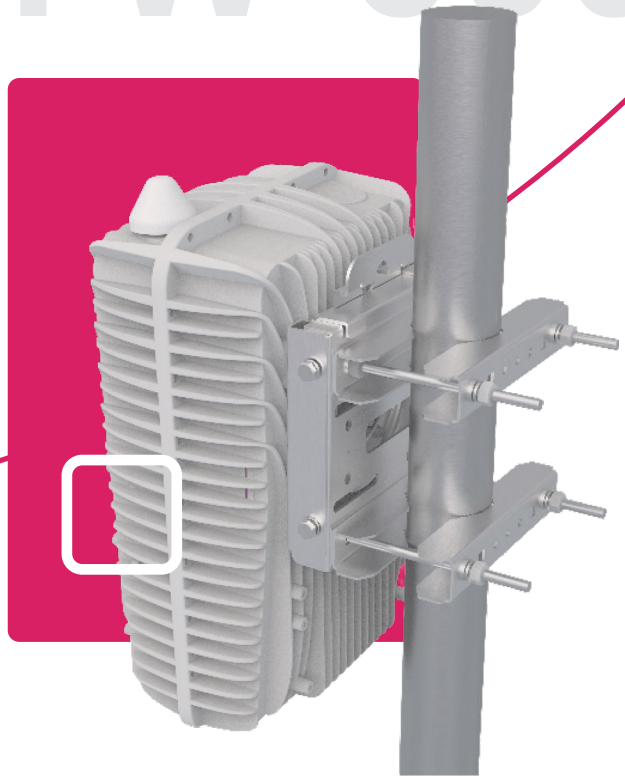
YOUR NETWORK. OUR SOLUTIONS.

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

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.

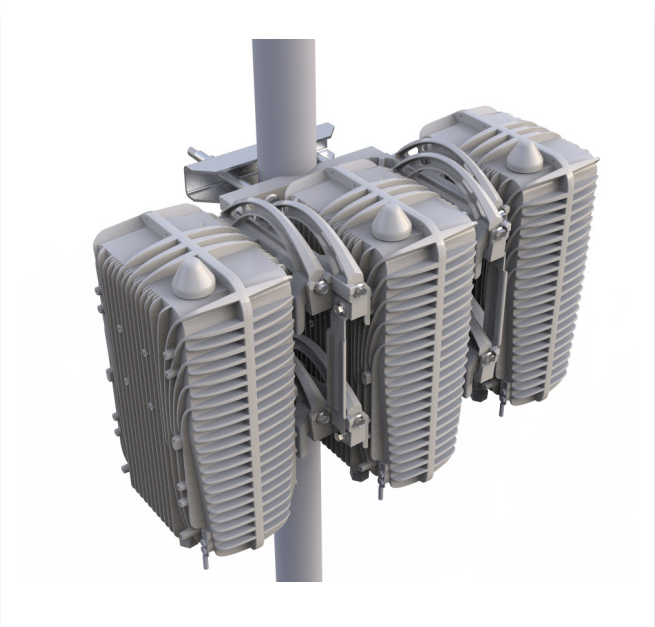
FW-600 B42/43/48 SINGLE BAND ARCHITECTURE

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

* 6 ports antenna

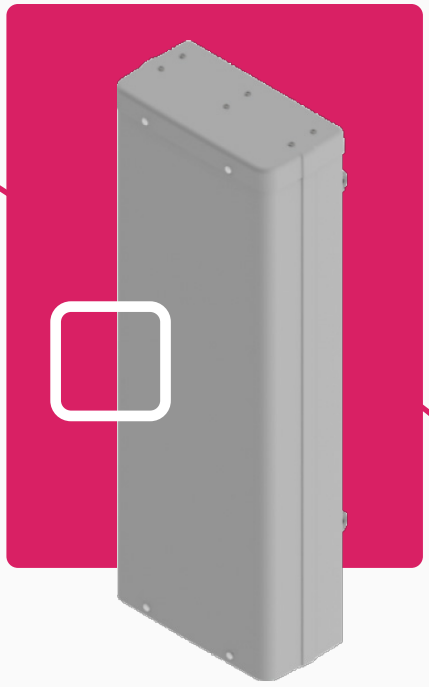
Here is one of the recommended antenna pairings and its deployment configuration.

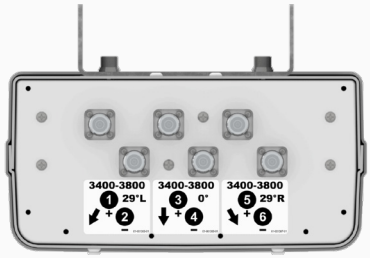
MBA3F-H3A:

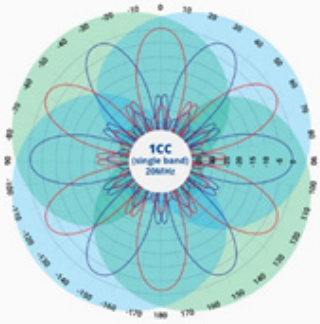
THREE-BEAM SPECIAL EVENTS ANTENNA

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)
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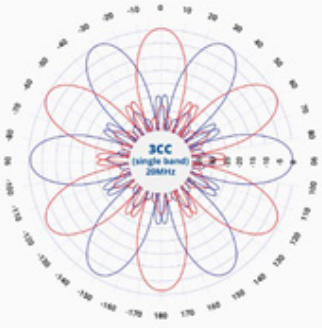
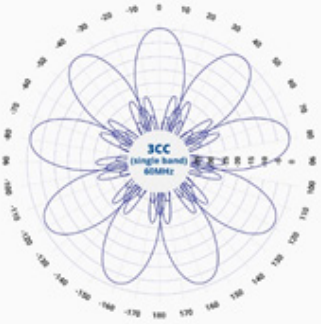


2CC = 40 MHz (f1, f2)
1CC = 20 MHz (f3)



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

FW-600 B42/43, B48

ANTENNA SPECIFICATIONS

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

CONTACT US
Tel: +1 416.214.4204
info@blinqnetworks.com
www.blinqnetworks.com

140 Renfrew Drive, Markham
ON, L3R 6B3, Canada