



WIRELESS SOLUTIONS FOR
ANYONE, ANYWHERE.



FWC-122HG-35

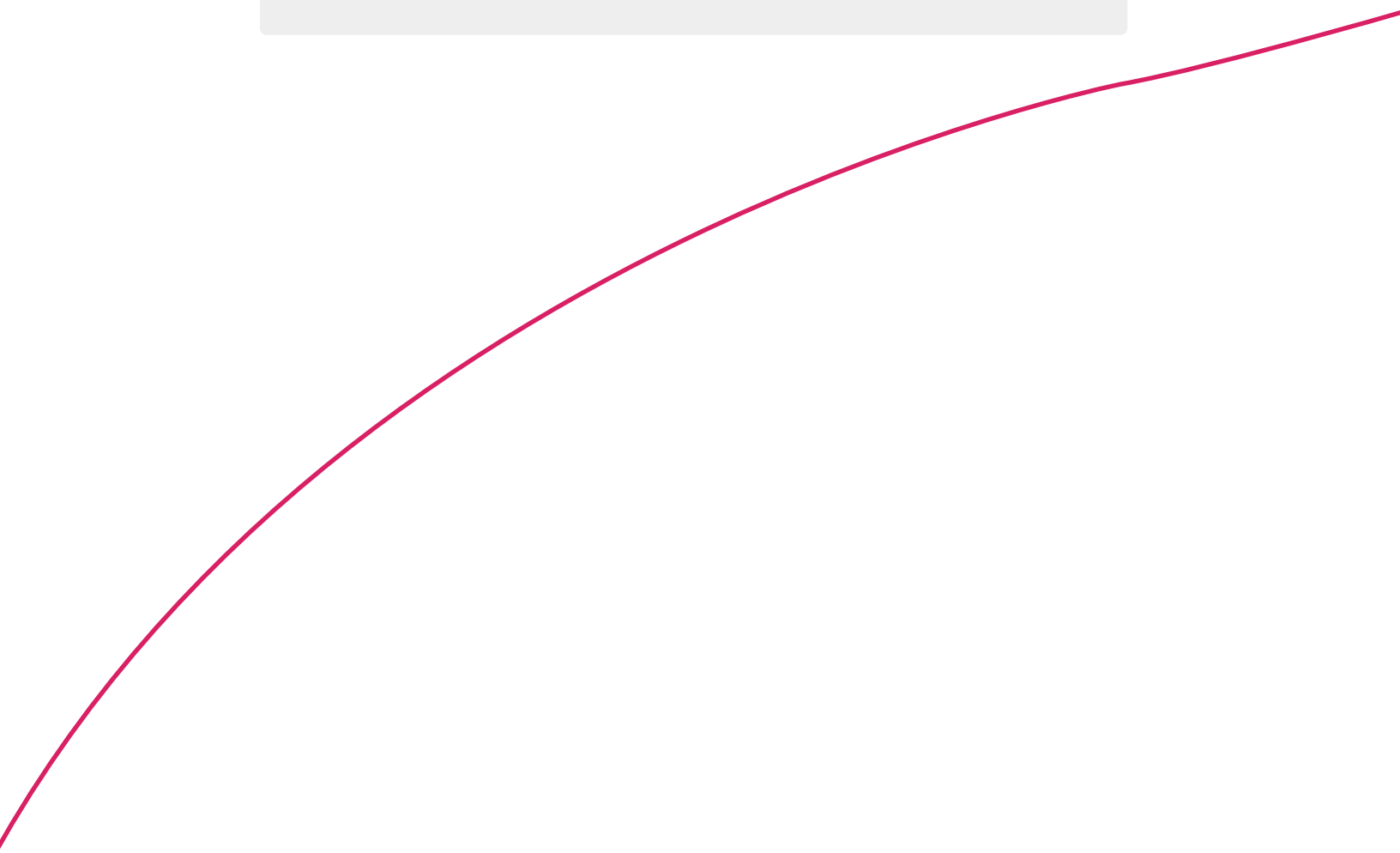
FWC-122HG-35



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.



FWC-122HG-35

SUMMARY

FWC-122HG-35



FWC-122HG-35 CPE IS A CATEGORY 12 HIGH GAIN LTE CPE SUPPORTING BLINQ MASSIVE MIMO FW300I/600 SOLUTION.

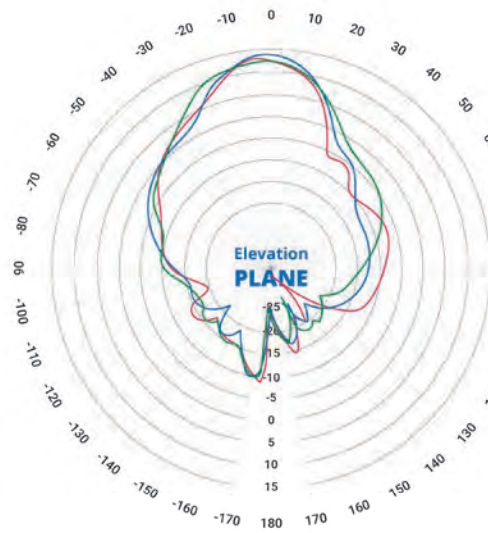
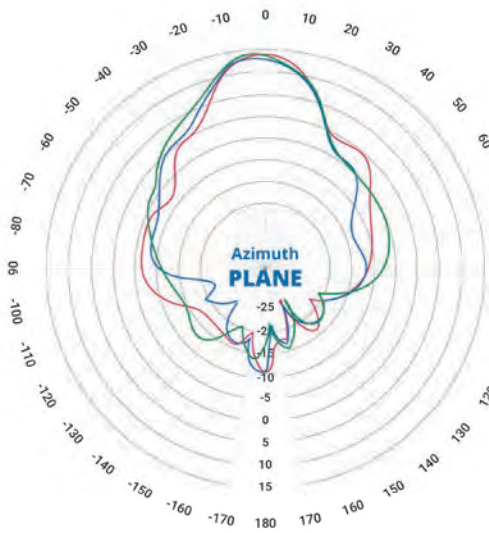
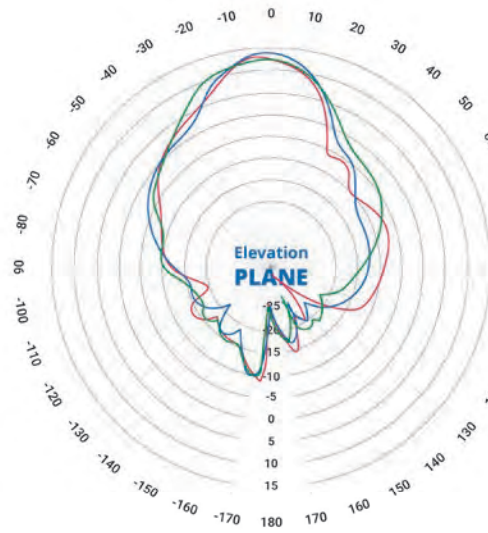
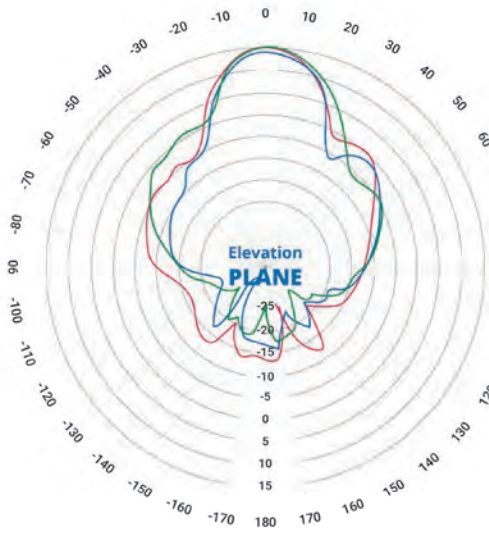
HERE ARE SOME KEY FEATURES:

- Supports TDD-LTE Mode Band 42, 43 & 48
- Supports 3GPP Release 12 compliant
- Supports up to UE LTE Category 12/13/15 PHY Rate *
- Supports 4x4 MIMO with 40MHz CA
- Supports DL 256QAM with DL 2x2 MIMO only up to 80MHz CA
- Supports UL 2Tx (CDD / UL_CA/ UL_MIMO)
- Physical 2Tx & 4Rx in RF front end GPS for location (optional HW & SW; not in default package)
- Supports 1.8V and 3V SIM and USIM card for LTE Mode
- Supports Dynamic Host Configuration Protocol
- Built-in web server for web-based configuration
- Password protected access and configuration Supports IEEE 802.3, IEEE 802.3u, 802.3ab (10/100/1000 Mbps)
- Supports Power over Ethernet of Outdoor WAN port {802.3 at}
- Supports VPN pass-through
- IP67 Environmental Proof

*TDD Cat 12 with 4x4 + 40MHz carrier aggregation peak throughput is around 440Mbps for Downlink @ TDD Config 2 SSF 7 & UL CA + 64QAM is around 30Mbps for Uplink

FWC-122HG-35

ANTENNA PATTERNS



FWC-122HG-35

SPECIFICATIONS



MODEL SERIES		
	BASE STATION	FWC-122HG-35
RADIO SPECIFICATION		
	Peak Throughput	DL 440 Mbps (Config 2-7); UL 30 Mbps (Config 2-7)
	Carrier Aggregation	DL 4CC up to 20 MHz each (w. DL 2x2 + 256QAM) DL 2CC up to 20MHz each (w. DL 4x4) UL 2CC or Diversity or TM2 + 64 QAM
	Frequency Band	TDD LTE Bands 42, 43, 48
	DL Carrier Aggregation Bandwidth	80MHz max.
	UL Carrier Aggregation Bandwidth	40MHz max. with 2CC
	Transmit Power	Up to +23 dBm
	Tx Power Dynamic Range	63 dBm
	Receiver Sensitivity	-95 dBm
	Integrated Antenna Peak Gain	16 ± 1.0 dBi
	Channel Bandwidth	10, 20 MHz
	MIMO	DL MIMO 2x2 / 4x4 / 8x4 UL 1x2 (with diversity); UL 1x2 CA; UL 2x2
	LTE Compliance	3GPP Release 12 (Category 12/13/15 PHY Rate supported)
	CBRS SAS Support	CBRS Type B Client
MECHANICAL & REGULATORY		
	Dimensions (LxWxD) Base Unit	13.4" x 13.4" x 2.95" (340mm x 340mm x 75mm)
	Weight	4.41lbs (2kg)
	PoE	802.3at
	Power	Tact Switch (Hidden - for repair only)
	Reset/Reboot Button	-40 °F to 140 °F (-40 °C to 60 °C)
	Survival Wind Speed	124mph (200km/h)
	Operating Humidity	5% to 95%
	Storage Humidity	5% to 95%
	Operational Temperature	-40°F to 131°F (-40°C to 55°C)
	Storage Temperature	-40°F to 158°F (-40°C to 70°C)
	MTBF ODU	300,000 at 131°F (55°C)
	LTE	EN 301 908-13 V11.1.1
	Safety	EN/UL 60950-1 & EN/UL 60950-22
	EMC	EN 301 489-1 / -4 / -17 / -24
	Environmental	IP67

FWC-122HG-35

SPECIFICATIONS



NETWORKING & OAM		
	LTE BB ASIC	GDM7243A (GCT Semiconductor)
	LTE RF ASIC	GRF7243A (GCT Semiconductor)
	Ethernet LAN Port	One RJ-45 Port 10/100/1000 Auto-Sensing, Auto-MDX
	LED Indicators	Signal Strength / LAN / SIM
	SIM Function	1.8V, 3V SIM and USIM card
	PIN/PUK Code	Yes
	Stack	IPv4, IPv6, Dual
	NAT/Dynamic NAT	Yes
	Router Mode	Yes
	Bridge Mode	Yes
	Tunnel Mode	GRE, L2TP, IPsec, PPTP (Available per request)
	DCHP Server in LAN	Yes
	DNS Relay	Yes
	DDNS Client	Yes
	VPN Pass-Through – IPsec/PPTP/L2TP	Yes
	UPNP	Yes
	HTTP Server	Yes
	ALG Support (FTP/SIP/...)	Yes
	Networking Debug/Testing	IPerf, Ping, Traceroute
DEVICE MANAGEMENT & SECURITY		
	WEB	Yes
	SNMP	Yes
	TR-069 (TR-0143)	Yes (Roadmap)
	FOTA Upgrade	Yes
	System Log/Diagnostic	Yes (Chipset embedded tool)
	Username/Password Configuration	Yes
	L2/L3 Firewall	Basic/Port Forwarding/Port Trigger/DMS/Remote/WAN Ping/ Remote Web Access Control

FWC-122HG-35

LED INDICATORS



LED NAME	LOCATION	COLOR	LED BEHAVIOR	STATUS INDICATION
LED List				
MAIN power		Blue	ON OFF	Power On Power Off
Ethernet status		Yellow	Steady ON Blinking OFF	Detect Ethernet Device Connected N/A No Ethernet action
SIM status		Green	Steady ON Blinking when On-Hook OFF	SIM Detected PUK / PIN Code No SIM Detected
LTE Status LED : Link Status			When CPE is power on, each LED indicates each link status; change upon customer requirements	
LTE 1		Blue	Steady ON	SINR < 7
LTE 2		Blue	Steady ON	7dB < SINR < 11dB
LTE 3		Blue	Steady ON	11dB < SINR < 18dB
LTE 4		Blue	Steady ON	18dB < SINR < 23dB
LTE 5		Blue	Steady ON	23dB < SINR



CONTACT US

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

140 Renfrew Drive, Markham
ON, L3R 6B3, Canada
© 2018-2020 BLiNQ Networks a CCI company