



WIRELESS SOLUTIONS FOR  
**ANYONE, ANYWHERE.**



FWC-122HG-35

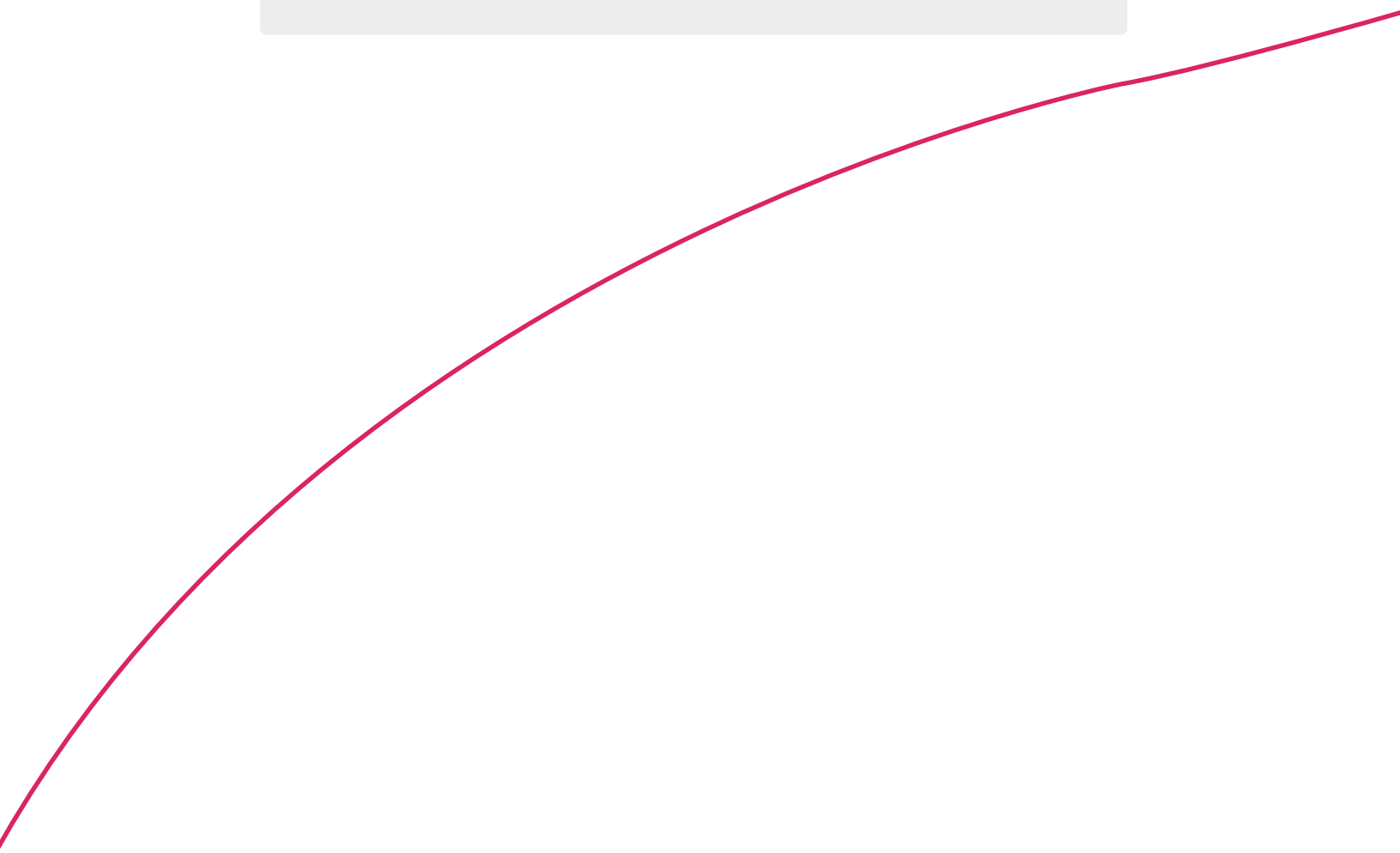
**FWC-122HG-35**



# 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



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

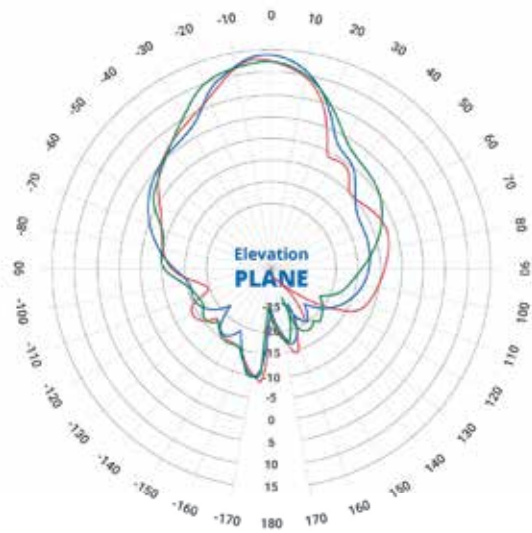
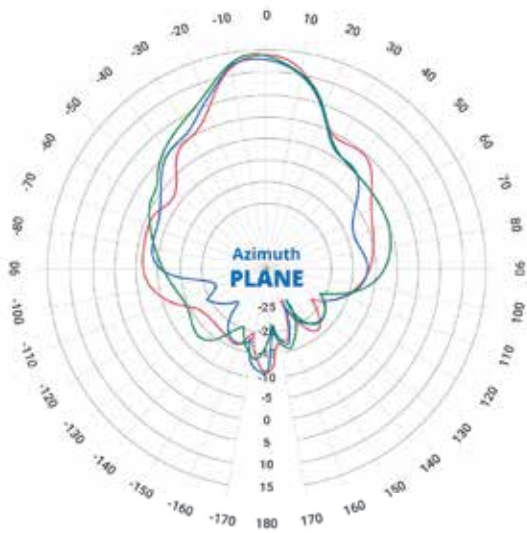
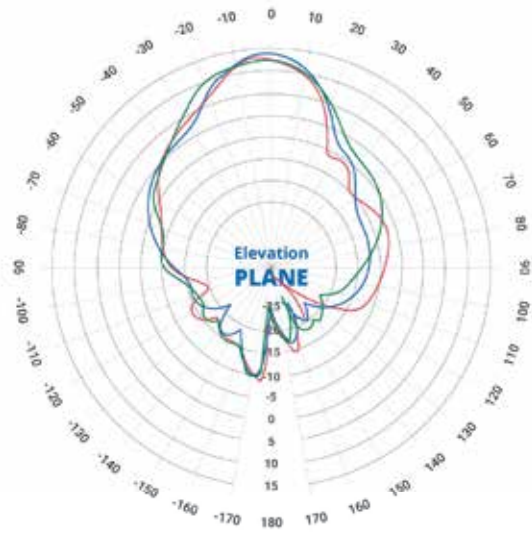
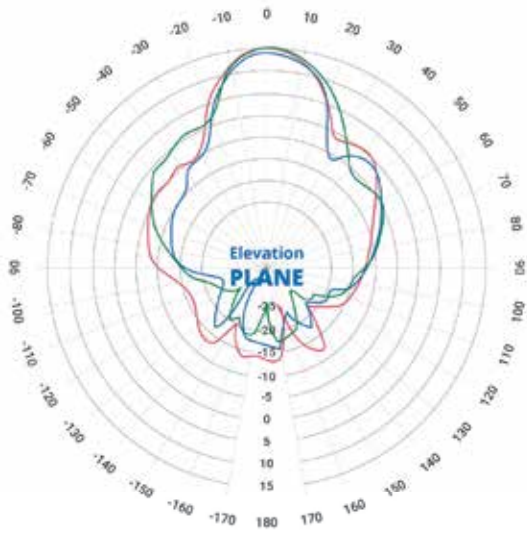
### **HERE ARE SOME KEY FEATURES:**

- 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

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ANTENNA PATTERNS



# FWC-122HG-35

## SPECIFICATIONS



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

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## SPECIFICATIONS



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

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## LED INDICATORS



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





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