



WIRELESS SOLUTIONS FOR  
**ANYONE, ANYWHERE.**



FWC-110HG-35

**FWC-110HG-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-110HG-35

### SUMMARY



# FWC-110HG-35

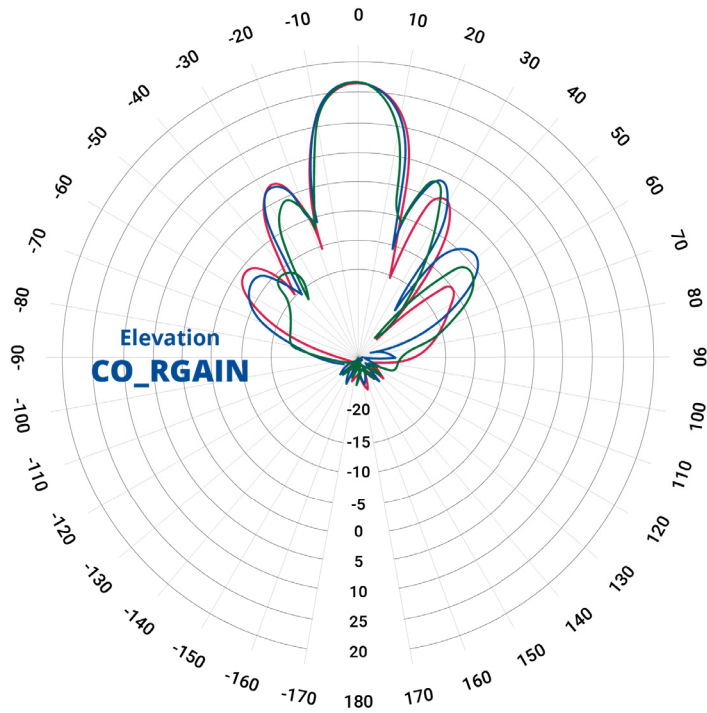
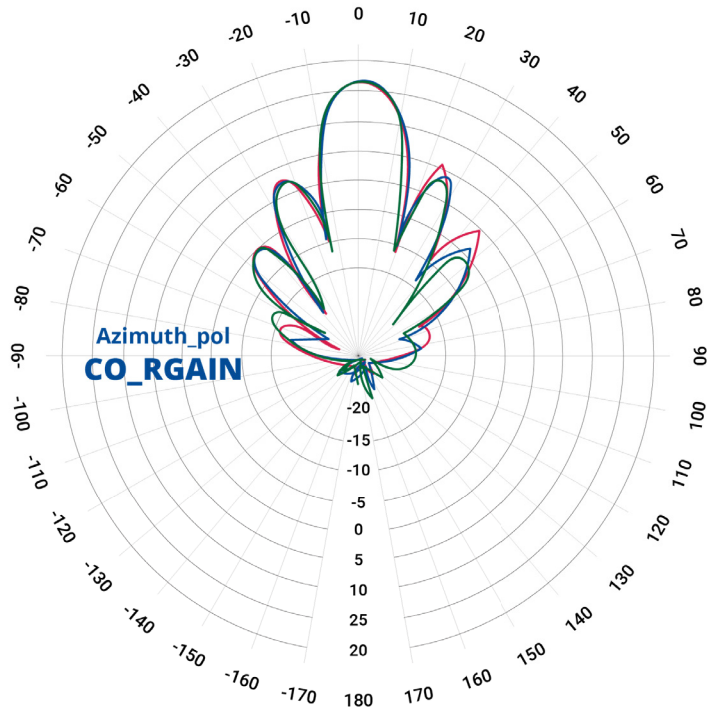


## CATEGORY 6 HIGH GAIN LTE CPE SUPPORTING BLiNQ MASSIVE MIMO FW-300i/600 SOLUTION.

### HERE ARE SOME KEY FEATURES:

- Supports TDD-LTE Mode Band 42, 43 & 48
- 3GPP Release 10 compliant (Support Cat 6; 40MHz Carrier Aggregation)
- Supports up to UE LTE Category 6 PHY Rate
- Supports 1.8V and 3V SIM and USIM card for LTE Mode
- Supports 1TX/2RX with TX switched diversity
- 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, IEEE 802.3 ab (10/100/1000 Mbps)
- Supports Power over Ethernet of Outdoor WAN port {802.3 at}
- Supports VPN pass through
- IP67 Environmental Proof

**FWC-110HG-35**  
**ANTENNA PATTERNS**





# FWC-110HG-35

## SPECIFICATIONS



| MODEL SERIES            |                              |                                                               |
|-------------------------|------------------------------|---------------------------------------------------------------|
|                         | BASE STATION                 | FWC-110HG-35                                                  |
| RADIO SPECIFICATION     |                              |                                                               |
|                         | Peak Throughput              | 220 Mbps (Config 2-7)                                         |
|                         | Carrier Aggregation          | 2CC up to 20 MHz each                                         |
|                         | Frequency Band               | TDD LTE Bands 42/43, 48                                       |
|                         | Transmit Power               | Up to +23 dBm                                                 |
|                         | Tx Power Dynamic Range       | 63 dBm                                                        |
|                         | Receiver Sensitivity         | -93-95 dBm                                                    |
|                         | Integrated Antenna Peak Gain | 20 ± 1.0 dBi                                                  |
|                         | Channel Bandwidth            | 10, 20 MHz                                                    |
|                         | MIMO                         | DL MIMO 2x2 & 4x2                                             |
|                         | LTE Compliance               | 3GPP Release 10 & 11                                          |
| MECHANICAL & REGULATORY |                              |                                                               |
|                         | Dimensions (LxWxD) Base Unit | 13.4" x 13.4" x 2.95" (340 mm x 340 mm x 75 mm)               |
|                         | Weight                       | 4.41 lbs (2 kg)                                               |
|                         | PoE                          | 802.3at                                                       |
|                         | Power                        | <b>Input:</b> Universal Range 100~240VAC <b>Output:</b> 56VDC |
|                         | Reset/Reboot Button          | Tact Switch                                                   |
|                         | Survival Wind Speed          | 124 mph (200 km/h)                                            |
|                         | Operating Humidity           | 5% to 95%                                                     |
|                         | Operational Temperature      | -40°F to 131°F (-40°C to 55°C)                                |
|                         | MTBF ODU                     | 300,000 at 131°F (55°C)                                       |
|                         | LTE                          | EN 301 908-1 V11.1.1 & EN 301 908-13 V11.1.1                  |
|                         | Safety                       | IEC 60950-1 / EN 60950-1                                      |
|                         | EMC                          | Draft EN 301 489-52 V.1.1.0                                   |
|                         | Environmental                | IP67                                                          |
|                         | RF Exposure                  | EN 50382:2002 / EN 62311:2008                                 |

# FWC-110HG-35

## SPECIFICATIONS



| NETWORKING & OAM             |                                           |                                                                                      |
|------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------|
|                              | <b>LTE BB ASIC</b>                        | SQN3220 (Sequans Communication)                                                      |
|                              | <b>LTE RF ASIC</b>                        | SQN3242 x 2 (Sequans Communication)                                                  |
|                              | <b>Ethernet Ports</b>                     | 802.3, IEEE 802.3u, IEEE 802.3ab                                                     |
|                              | <b>LED Indicators</b>                     | Signal Strength / LAN / SIM                                                          |
|                              | <b>USIM Slot</b>                          | Support standard 1.8V / 3V USIM                                                      |
|                              | <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 (253 Clients)                                                                    |
|                              | <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 (Ready for IOT)                                                                  |
|                              | <b>FOTA Upgrade</b>                       | Yes (IOT with different network)                                                     |
|                              | <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/<br>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<br>OFF                                                 | Power On<br>Power Off                                           |
| <b>Ethernet status</b>              |          | Yellow                     | Steady ON<br>Blinking<br>OFF                              | Detect Ethernet Device Connect-<br>ed N/A<br>No Ethernet action |
| <b>SIM status</b>                   |          | Green                      | Steady ON<br>Blinking when On-Hook<br>OFF                 | SIM Detected<br>PUK / PIN Code<br>No SIM Detected               |
| <b>LTE Status LED : Link Status</b> |          |                            | When CPE is power on, each LED indicates each link status |                                                                 |
| <b>LTE 1</b>                        |          | Red                        | Steady ON                                                 | SINR < 11dB                                                     |
| <b>LTE 2</b>                        |          | Red /<br>Yellow            | Steady ON                                                 | 11dB < SINR < 18dB                                              |
| <b>LTE 3</b>                        |          | Red /<br>Yellow /<br>Green | Steady ON                                                 | SINR > 18dB                                                     |



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**CONTACT US**

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