



CONNECTING COMMUNITIES THROUGH  
**WIRELESS SOLUTIONS**



FW-300i

# FW-300i



## 3X COVERAGE & CAPACITY AT $\frac{1}{3}$ RD THE COST

The FW-300i is an integrated wireless solution that is easy to set up, fits anywhere, and provides incredible network capacity. It is a tri-sector and tri-carrier Long-Term Evolution (LTE) Evolved Node B (eNB) with the capability to operate in the following bands: 42, 43 and 48 (Citizens Broadband Radio Service or CBRS).

From the side of a building or water tower, the FW-300i can be deployed effortlessly, giving 3x the capacity at  $\frac{1}{3}$  the price.

Whether you want to expand your network to remote communities or to busy urban intersections, this OnGo Certified product helps you bring LTE connectivity to anyone, anywhere.



### All-In-One Solution



### Ease of Deployment



### CBRS Category B Certified



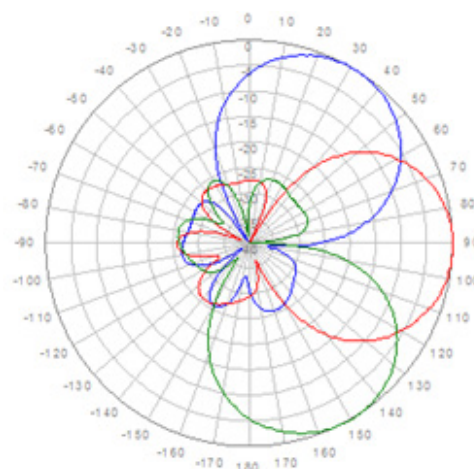
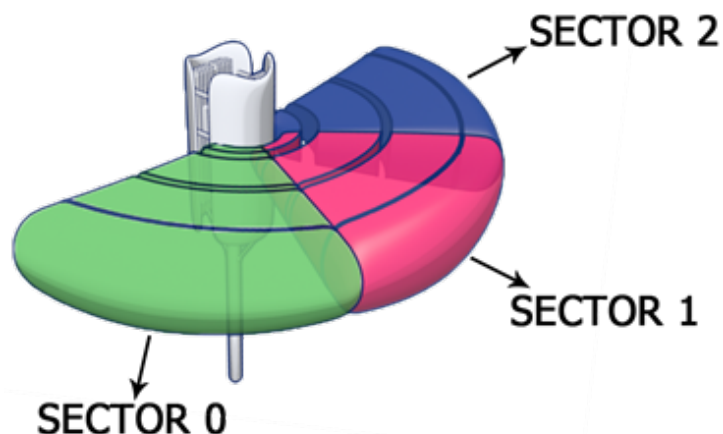
### Supports Carrier Aggregation

#### HERE ARE SOME KEY FEATURES:

- 'All-In-One' Fully Integrated Solution
- CBRS Category B Certified
- Supports all LTE TDD Configurations
- Supports 10 MHz and 20 MHz
- Supports Uplink\* and Downlink Carrier Aggregation (up to 3CC)
- 180° Azimuth Coverage
- Features Standard 2x2 MIMO Configurations
- Supports 256 QAM\* Downlink and 64 QAM Uplink
- Supports IPv6
- Supports Mobility

# FW-300i

## SPECIFICATIONS



| MODELS                                  |  |   |
|---|--|---|
| FW3-B48-00-HP-NA / FW3-B42-43-HP-EU     |  |   |
|   | FW3-B48-00-HP-NA   | FW3-B42-43-HP-EU  |
| RADIO SPECIFICATION                     |  |   |
| Frequency Band                          | 3.55-3.70 GHz (LTE Band 48 - CBRS)   | 3.40-3.80 GHz (LTE Band 42/43)  |
| Transmit Power                          | -10 dBm up to + 30 dBm per TX Pout<br>(add 3 dBm for aggregate power)  | -10 dBm up to + 36 dBm per TX Pout<br>(add 3 dBm for aggregate power) |
| EIRP                                    | 17 dBi Integrated Antenna --> up to 53 dBm EIRP/Sector   |   |
| Channel Bandwidth                       | 10, 20 MHz   |   |
| MIMO                                    | 2TX x 2RX per Sector   |   |
| LTE Compliance                          | 3GPP Release 10 (SW upgrade to Release 13)   |   |
| PERFORMANCE & ATTRIBUTES                |  |   |
| Number of UEs Supported                 | Up to 288 UEs per Base Unit  |   |
| Carrier Aggregation                     | Supports contiguous and non-contiguous 2CC, 3CC<br>Covers full CBRS band (150 MHz)                             |   |
| Throughput DL TDD Config 2-7            | 110 Mbps per sector (140 Mbps*) per Carrier<br>330 Mbps per base unit (420 Mbps*) per Base Unit - 3 x Carriers |   |
| Throughput UL TDD Config 2-7            | 11 Mbps per Carrier<br>33 Mbps per Base Unit - 3 x Carriers  |   |
| Operating Mode                          | TD-LTE   |   |
| Power Consumption                       | 180 W maximum  |   |
| Power                                   | 48 VDC   |   |
| Connectivity                            | Default: 1 x Copper 1000BaseT; Optional: 1 x SFP   |   |
| Synchronization                         | Integral GPS antenna (GPS, GLONASS, BeiDou),<br>Optional: External GPS   |   |
| Citizens Broadband Radio Service (CBRS) | CBSD Category B Certified  |   |
| Embedded Evolved Packet Core (EPC)      | Software Option  |   |

\*Roadmap item

# FW-300i

## SPECIFICATIONS



|  | FW3-B48-00-HP-NA                           | FW3-B42-43-HP-EU |
|--|--|------------------|
| OPERATIONS, ADMINISTRATION AND MAINTENANCE (OAM) |  |                  |
| Configuration                                    | WebUI, CLI and EMS                         |                  |
| EMS Integration                                  | RESTCONF                                   |                  |
| OAM Protocols                                    | RESTCONF, HTTPS, SSH, SNMPv2c              |                  |
| ANTENNA SPECIFICATIONS BANDS 42/43, 48           |  |                  |
| Gain   | 17 dBi                                     |                  |
| Azimuth Coverage (-5 dB)                         | 180°                                       |                  |
| Azimuth Beamwidth (-3 dB)                        | 45°  |                  |
| Azimuth Beamwidth (-5 dB)                        | 60°  |                  |
| Elevation Beamwidth (-3 dB)                      | 10°  |                  |
| Electrical Downtilt                              | 0°   |                  |
| Azimuth Sidelobe                                 | < -25 dB (Typ.)                            |                  |
| Front-to-Back Ratio @180 Degrees                 | > 30 dB (Typ.)                             |                  |
| Co-Polar Port-to-Port Isolation                  | 15 dB (Typ.)                               |                  |
| Cross-Polarization Port-to-Port Isolation        | > 20 dB (Typ.)                             |                  |
| Max. Voltage Standing Wave Ratio (VSWR)          | 1.5:1                                      |                  |
| Polarization                                     | Dual Pol 45°                               |                  |
| Lightning Protection                             | DC Ground                                  |                  |
| MECHANICAL                                       |  |                  |
| Dimensions (L x W x D)                           | 13.78" x 22.4" x 8.9" (350 x 570 x 227 mm) |                  |
| Survival Wind Speed                              | Up to 124 mph (200 km/hour)                |                  |
| Weight   | 26.5 lbs. (12.0 Kg)                        |                  |
| Operational Temperature                          | -40 °F to 60 °F (-40 °C to 60 °C)          |                  |
| Mechanical Uptilt/Downtilt                       | 0° - 10°                                   |                  |



# YOUR NETWORK. OUR SOLUTIONS.



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