

# CEL-FI GO G43 FN

## In-Building Cellular Coverage Solution

**MODEL NUMBERS:** G43-CBBE

Designed to offer retailers, convenience stores, quick serve restaurants, and other small businesses a fast way to solving in-building cellular coverage challenges, the CEL-FI GO G43 FN is a multi-operator cellular coverage solution that ensures reliable in-building 4G and future 5G NR connectivity for up to three Mobile Network Operator (MNO) signals. In addition to offering the ease of installation that CEL-FI GO systems are known for, GO G43 FN features support for FirstNet on Port A along with the latest Nextivity proprietary 4th generation IntelliBoost technology to deliver the same multi-operator, channelized signal boosting performance as the flagship CEL-FI QUATRA line of products. The system also offers remote system monitoring and management via the Nextivity WAVE Portal.



CEL-FI GO G43 FN



### Features and benefits include:

- Latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelized coverage for multi-operator signals, including FirstNet
- Ready to extend coverage for 5G networks
- Industry-leading signal gain up to 100 dB to overcome coverage challenges where no other solution can
- Automatic gain control (AGC) feature automatically adjusts the signal strength to prevent interference with the MNO network
- System monitoring and management with WAVE Portal

### Specifications

|                                                                   |                                                               |
|-------------------------------------------------------------------|---------------------------------------------------------------|
| Frequency Bands                                                   | 2/4/5/12/13/14/25                                             |
| Relay Channel Bandwidths (MHz)                                    | 5/10/15/20                                                    |
| Networks                                                          | 4G/5G                                                         |
| Network Protocols                                                 | LTE/DSS/NR                                                    |
| Antenna Technology                                                | SISO                                                          |
| Network Selection                                                 | Automatically best available (WAVE Portal for manual setting) |
| Duplex Modes                                                      | FDD                                                           |
| # of Relay Bands (max.)                                           | 6                                                             |
| Relay Bandwidth per Donor Port (MHz max.)                         | 20 + 20                                                       |
| Output Downlink Power (All Bands) (dBm max. per band per port)    | 17                                                            |
| Output Downlink Power (All Bands) (dBm max. per channel per port) | 12                                                            |
| Output Uplink Power (Bands 2/4/25) (dBm max.)                     | 22                                                            |
| Output Uplink Power (Bands 5/12/13/14) (dBm max.)                 | 20                                                            |
| System Gain (dBm max.)                                            | 100                                                           |
| Enterprise-Grade Echo Cancellation (dB min.)                      | 30                                                            |
| Return Loss (dB typ.)                                             | -8                                                            |
| Impedance (Ω nom.)                                                | 50                                                            |

### Bands

| Frequency Bands | Downlink (MHz) | Uplink (MHz) | Max. Relay BW (MHz) |
|-----------------|----------------|--------------|---------------------|
| 2               | 1930-1990      | 1850-1910    | 20                  |
| 4               | 2110-2155      | 1710-1755    | 20                  |
| 5               | 869-894        | 824-849      | 15                  |
| 12              | 729-746        | 699-716      | 10                  |
| 13              | 746-756        | 777-787      | 10                  |
| 14              | 758-768        | 788-798      | 10                  |
| 25              | 1930-1995      | 1850-1915    | 20                  |

Interface

|                                |                                          |
|--------------------------------|------------------------------------------|
| Donor RF Connector             | 3x N-type (f)                            |
| Server RF Connector            | 3x N-type (f) (2x N-type (f) terminated) |
| DC Input                       | Power DIN, 4 Pin                         |
| Power & System Status          | 3x Bi-color LED (Green/Red)              |
| LAN Status                     | 1x LED (Green)                           |
| Factory Debug only             | 3x USB 2.0 Micro-B                       |
| System Management & SW Updates | RJ45 for WAVE Portal for Desktop         |

Compliance

|       |                                                      |
|-------|------------------------------------------------------|
| 3GPP  | TS 25.143 Rel 13                                     |
|       | 3GPP TS 36.143 Rel 13                                |
| FCC   | Compliant                                            |
|       | Part 15, Part 20, Part 22, Part 24, Part 27, Part 90 |
| RoHS3 | EN 63000: 2018                                       |
| UL    | Yes                                                  |
| ISED  | Yes                                                  |

Power Supply

|                                       |              |
|---------------------------------------|--------------|
| Power Consumption (W max.)            | 102          |
| Input Voltage (VDC)                   | 11.4 to 12.6 |
| Input Current (A max.)                | 8.5          |
| Power Supply Plug                     | Type A (US)  |
| Power Supply AC Cable                 | 18 AWG       |
| Power Supply Cable Length (ft (m))    | 6 (1.85)     |
| Power Supply DC Cable                 | 16 AWG       |
| Power Supply DC Cable Length (ft (m)) | 3.3 (1)      |

Environmental

|                                               |                        |
|-----------------------------------------------|------------------------|
| Operating Temperature (°F (°C))               | 32 to 104 (0 to 40)    |
| Storage Temperature (°F (°C))                 | -31 to 158 (-35 to 70) |
| Heat Dissipation                              | Passive Convection     |
| Surface Temperature (°F (°C) max. at ambient) | 111.2 (44)             |
| Non-condensing Humidity (%)                   | 0 to 95                |
| Ingress Protection Rating                     | IPX0                   |

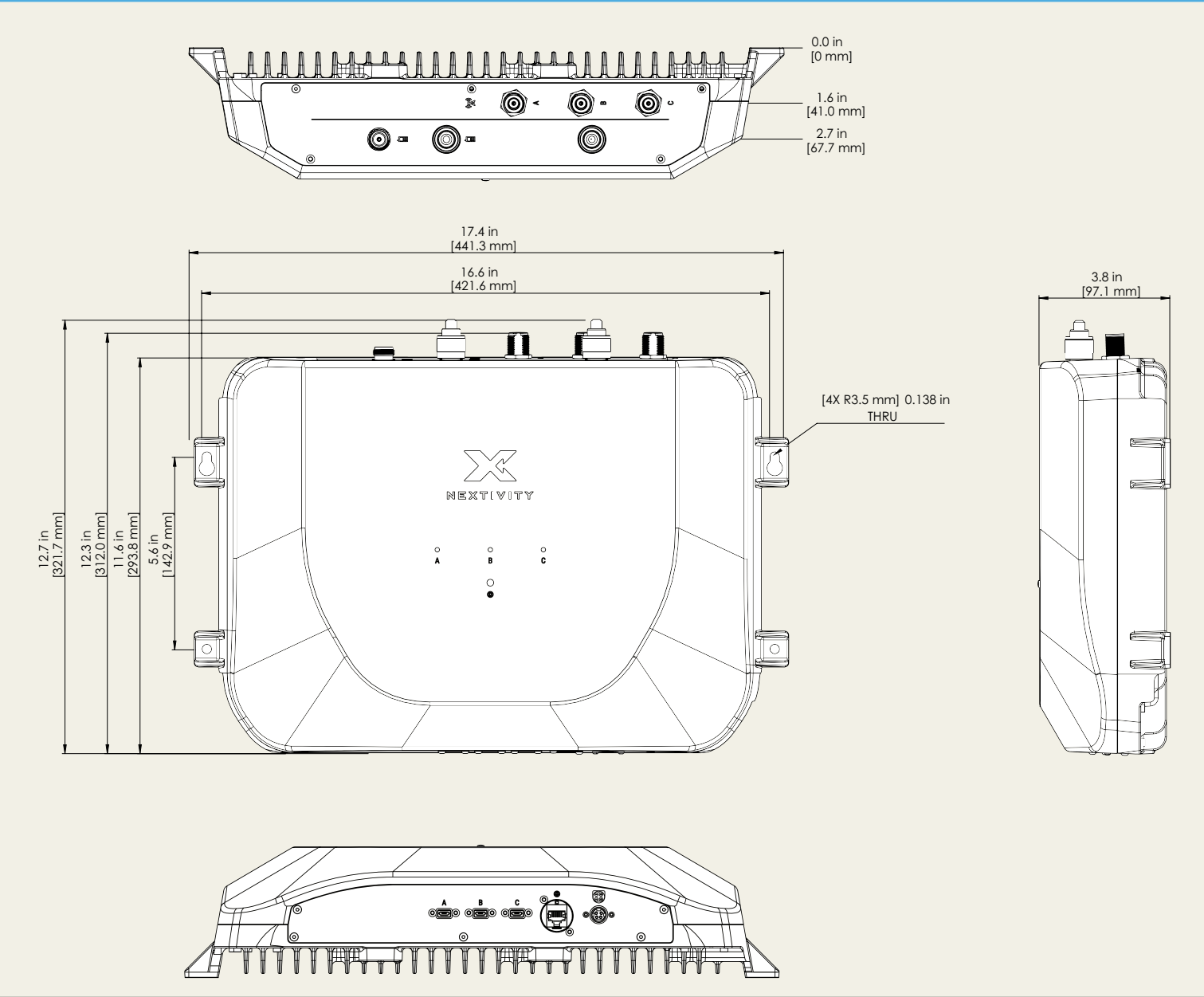
Mechanical

|                                |                                    |
|--------------------------------|------------------------------------|
| Main Unit Dimensions (in (mm)) | 17.4 x 12.3 x 3.8 (441 x 312 x 97) |
| Main Unit Weight (lbs (kg))    | 15.4 (7.0)                         |

Ordering Information

| MODEL NUMBER                  | G43-CBBE                            |
|-------------------------------|-------------------------------------|
| Region                        | AMER                                |
| Frequency Bands               | 2/4/5/12/13/14/25                   |
| Box Contents                  | Main Unit                           |
|                               | 1x AC Adapter (290N156-001)         |
|                               | 4x Mounting Screws                  |
|                               | 4x Drywall Anchors                  |
|                               | 1x AC Cable (249N001-001)           |
| Shipping Dimensions (in (mm)) | 23.5 x 16.0 x 6.8 (597 x 406 x 172) |
| Shipping Weight (lbs (kg))    | 19.5 (8.85)                         |

CEL-FI GO G43 Outline



Product specifications are subject to change without prior notification.