

# CEL-FI GO G41

## In-Building Cellular Coverage Solution

**KIT#:** G41-9E-001, G41-9E-002, G41-9E-003, G41-JE-001, G41-JE-002, G41-JE-003, G41-NE-001, G41-NE-002, G41-NE-003

Designed to solve cellular coverage challenges for indoor environments, the CEL-FI GO G41 is the most powerful carrier-grade solution in its class. Providing up to 100 dB gain, GO G41 is powered by the latest 4th generation Nextivity proprietary IntelliBoost chip to deliver reliable 2G, 3G, 4G, and 5G voice and data performance. GO G41 also supports 5G NR operation for seamless network migration and consistent connectivity. Plus, GO G41 is network safe and can be installed within minutes.



CEL-FI GO G41

### Features and benefits include:

- Latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelized coverage for specific mobile network operator's (MNO) signals
- Ready to extend coverage for future 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 via Nextivity WAVE App and management with WAVE Portal



Use Nextivity **WAVE** App to view real-time system performance.



### Specifications

Frequency Bands	1/3/5/7/8/20/28L/28U/40
Relay Channel Bandwidths (MHz)	5/10/15/20
Networks	2G/3G/4G/5G
Network Protocols	GSM/WCDMA/LTE/DSS/NR
Network Selection	Automatically best available (WAVE App for manual setting)
Duplex Modes	FDD & TDD
# of Relay Bands (MHz max.)	2
Relay Bandwidth (MHz max.)	20 + 20
Output Downlink Power (All Bands) (dBm max.)	20 (16 in U.K.)
Output Uplink Power (Bands 1/3/5/7/40) (dBm max.)	22
Output Uplink Power (Bands 8/20/28L/28U) (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)
1	2110-2170	1920-1980	20
3	1805-1880	1710-1785	
5	869-894	824-849	
7	2620-2690	2500-2570	15
8	925-960	880-915	
20	791-821	832-862	
28L	758-788	703-733	20
28U	773-803	718-748	
40	2300-2390	2300-2390	

## Interface

Donor RF Connector	SMA (f)
Server RF Connector	SMA (f)
DC Input	5.5 x 2.5 mm (f) Barrel
Device Setup	Bluetooth for WAVE App
Power & System Status	Bi-color LED (Green/Red)
LAN Status	Bi-color LED (Green/Red)
Factory Debug only	USB 2.0 Micro-B
System Management & SW Updates	WAVE App for iOS 11.0 or later WAVE App for Android WAVE Portal for Desktop

## Compliance

3GPP	TS 25.143 Rel 13 3GPP TS 36.143 Rel 13
CE	Compliant RED 2014/53/EU
RoHS3	EN 63000: 2018
OFCOM	VTS 2102
ACMA/RCM	AS/NZS CISPR, 32:2013
Bluetooth	LE Ver 4.2

## Power Supply

Power Consumption (W max.)	30
Power Supply Plug	Type C (EU) or Type I (AUS) or Type G (UK)
Power Supply Cable	18 AWG
Power Supply Cable Length (ft (m))	6 (1.85)

## 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	IP20 Indoor Only

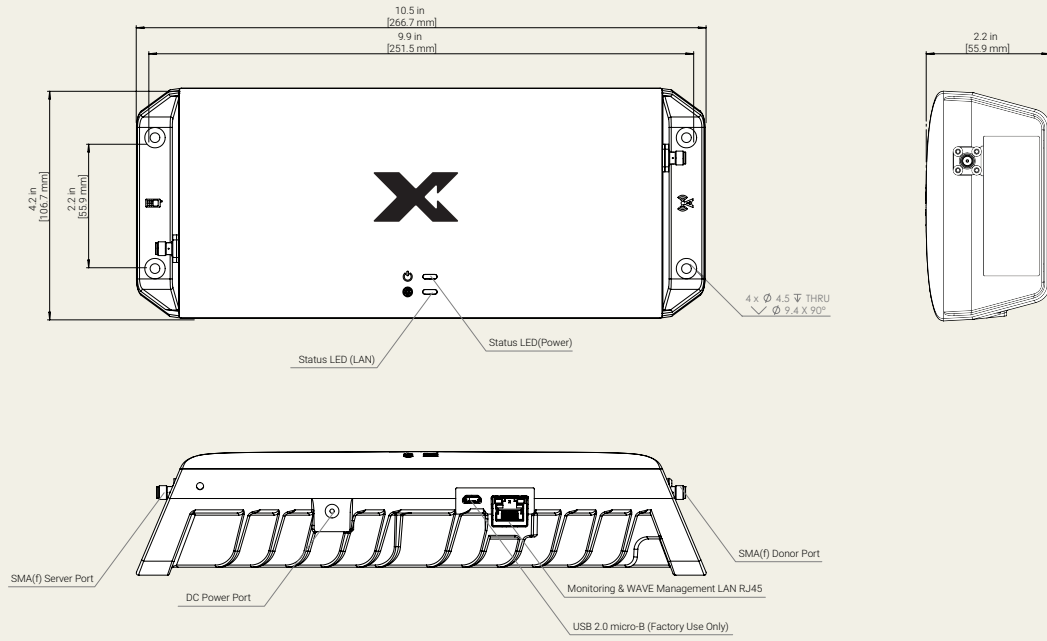
## Mechanical

Main Unit Dimensions (in (mm))	10.5 x 4.2 x 2.2 (266.7 x 106.7 x 55.9)
Main Unit Weight (lbs (kg))	2.3 (1.0)

## Ordering Information

KIT#	G41-9E-001	G41-9E-002	G41-9E-003	G41-JE-001	G41-JE-002	G41-JE-003	G41-NE-001	G41-NE-002	G41-NE-003
Region	EMEA			EMEA/APAC			EMEA/APAC		
Frequency Bands	1/3/7/8/20			1/3/5/7/8/28L/40			1/3/5/7/28U/40		
Dual Relay Bands	1 3 7						1 3		
Box Contents	Main Unit								
	1x Donor Antenna (A21-V33-100)			1x Donor Antenna (A21-V33-100)			1x Donor Antenna (A21-V33-100)		
	1x Server Antenna (A51-100-100)	1x Server Antenna (A51-101-100)		1x Server Antenna (A51-100-100)	1x Server Antenna (A51-101-100)		1x Server Antenna (A51-100-100)	1x Server Antenna (A51-101-100)	
	1x AC Adapter								
	4x Mounting Screws								
	4x Drywall Anchors								
Quick Installation Guide									
Kit Shipping Dimensions (in (mm))	16.3 x 4.9 x 4.6 (413 x 124 x 117)		16.3 x 4.9 x 3.0 (413 x 124 x 76)	16.3 x 4.9 x 4.6 (413 x 124 x 117)		16.3 x 4.9 x 3.0 (413 x 124 x 76)	16.3 x 4.9 x 4.6 (413 x 124 x 117)		16.3 x 4.9 x 3.0 (413 x 124 x 76)
Kit Shipping Weight (lbs (kg))	4.2 (1.88)		3.3 (1.50)	4.2 (1.88)		3.3 (1.50)	4.2 (1.88)		3.3 (1.50)

# CEL-FI GO G41 Main Unit Outline



Product specifications are subject to change without prior notification.