

CEL-FI GO G41

In-Building Cellular Coverage Solution

KIT#: G41-9E-001, G41-9E-003, G41-9E-00C, G41-9E-00E, G41-JE-001, G41-JE-003, G41-JE-00C, G41-NE-001, G41-NE-003, G41-PE-003, G41-TE-003, G41-TE-006, G41-DE-003, G41-XE-003, G41-LE-003, G41-LE-006, G41-IE-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 NSA and SA operation for seamless network migration and consistent connectivity. GO G41 is network safe and can be installed within minutes.

Features and benefits include:

- Latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelized coverage for specific mobile network operator's (MNO) signals
- Supports 2G, 3G, 4G, 5G NR NSA, and NR SA for future-proof connectivity
- Industry-leading signal gain up to 100 dB to overcome coverage challenges where no other solution can
- Automatic gain control (AGC) to prevent interference with the MNO network
- Allows system monitoring via Nextivity WAVE App and management with WAVE Portal



CEL-FI GO G41



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



Specifications

Frequency Bands	1, 3, 5, 7, 8, 20, 28L, 28U, 40, 41
Relay Channel Bandwidths	5/10/15/20 MHz
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	2
Relay Bandwidth	20 MHz + 20 MHz max.
Independent Operators Supported	1 max.
Downlink Input Power (All bands)	-100 to -40 dBm
Output Downlink Power (All Bands)	20 dBm (10dBm/5MHz in U.K.) max.
Output Uplink Power (Bands 1/3/7/40/41)	22 dBm max.
Output Uplink Power (Bands 5/8/20/28L/28U)	20 dBm max.
Downlink Transmit EVM (All Bands)	8%, 16-QAM with full RB allocation
Uplink Transmit EVM (All Bands)	8%, E-TM3.1
System Gain	100 dBm max.
Enterprise-Grade Echo Cancellation	30 dB min.
Return Loss	8 dB typ.
RF Interface Impedance (All Ports)	50 Ω nom.

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	
8	925-960	880-915	15
20	791-821	832-862	20
28L	758-788	703-733	
28U	773-803	718-748	
40	2300-2390	2300-2390	
41	2496-2690	2496-2690	

Interface

Donor RF Connector	SMA (f)
Server RF Connector	SMA (f)
DC Input	5.5 x 2.5 mm (f) Barrel
LAN	RJ45 Jack
USB	USB 2.0 Micro-B for WAVE Field Tool
Device Setup	Bluetooth for WAVE App
Power & System Status	Bi-color LED (Green/Red)
LAN Status	LED (Green)
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
CST	CITC GEN001, RI116
ICASA	Compliant TA-2022/2964
Bluetooth	LE Ver 4.2

Power Supply

DC Input Voltage	11.4 to 12.6 V
DC Input Current	2.5 A max.
Power Consumption	30 W max. 21 W typ.
Power Supply Plug	Type C (EU) or Type I (AUS/CN) or Type G (UK)
Power Supply Cable	18 AWG
Power Supply Cable Length	6 ft (1.85 m)

Environmental

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

Mechanical

Main Unit Dimensions	10.5 x 4.2 x 2.2 in (266.7 x 106.7 x 55.9 mm)
Main Unit Weight	2.3 lbs (1.0 kg)
Thermal Output	72 BTU/Hr

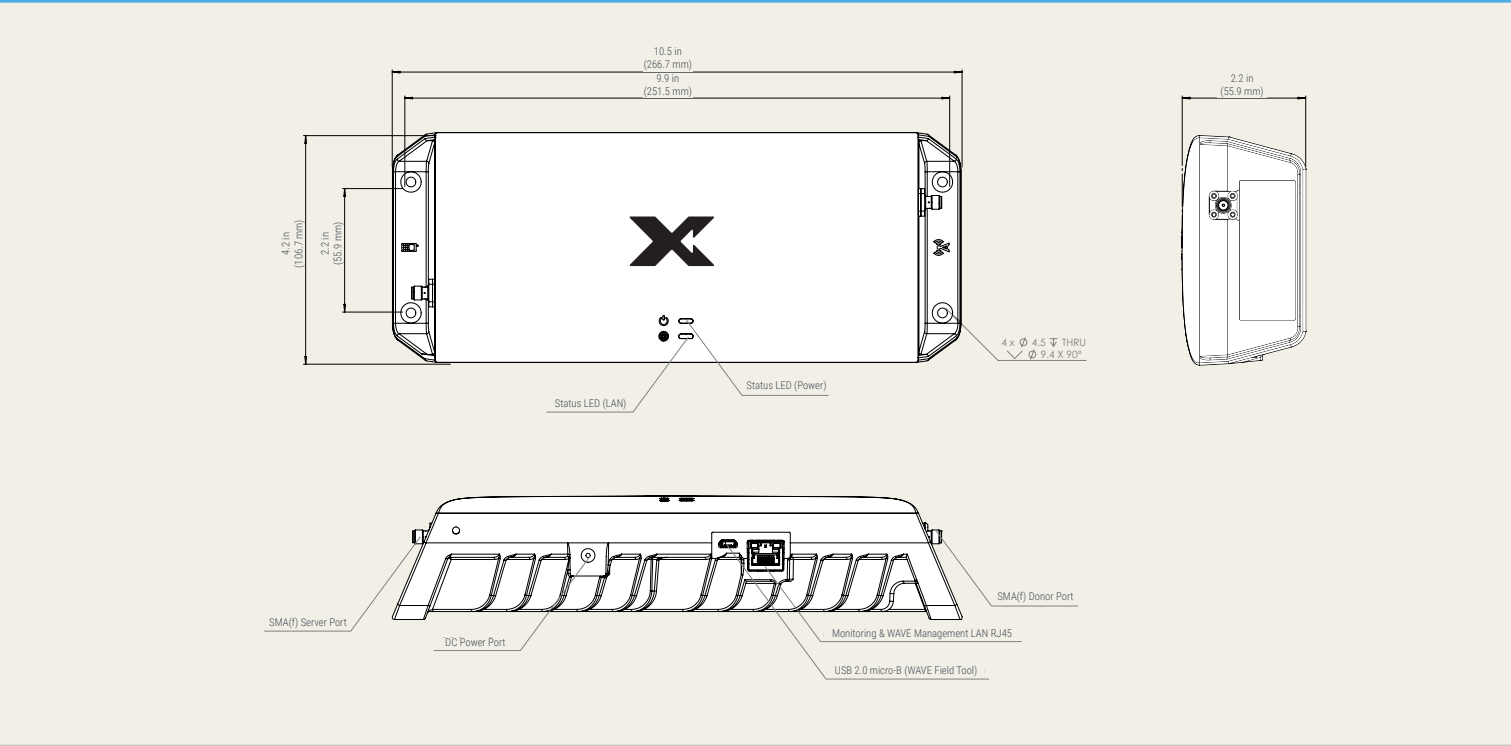
Ordering Information

KIT#	G41-9E-001		G41-9E-003	G41-9E-00C	G41-9E-00E	G41-JE-001	G41-JE-003	G41-JE-00C
Region	EMEA					EMEA/APAC		
Frequency Bands	1/3/7/8/20					1/3/5/7/8/28L/40		
Dual Relay Bands	1 3 7					1 3		
Box Contents	Main Unit							
	1x Donor Antenna (A21-100-100)		1x Donor Antenna (A52-FV3-300)		1x Donor Antenna (A21-100-100)		1x Donor Antenna (A52-FV3-300)	
	1x Server Antenna (A51-100-100)		1x Server Antenna (A51-100-100)	LTE Modem (LTEM-EU)	1x Server Antenna (A51-100-100)		1x Server Antenna (A51-100-100)	
	1x AC Adapter							
	4x Mounting Screws							
	4x Drywall Anchors							
	1x Category Cable							
	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)	11.6 x 11.1 x 9.1 (295 x 283 x 231)	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)	11.6 x 11.1 x 9.1 (295 x 283 x 231)
Kit Shipping Weight (lbs (kg))	4.2 (1.88)	3.3 (1.50)	7.1 (3.2)	4.1 (1.85)	4.2 (1.88)	3.3 (1.50)	7.1 (3.2)	
GTIN-12 (UPC)	812037033186	812037032943	812037033407	812037034473	812037033179	812037032790	812037033421	
Harmonized Tariff Schedule (HTS)	8517.18.00.50							
Export Control Class Number (ECCN)	EAR99							

KIT#	G41-NE-001		G41-NE-003	G41-PE-003	G41-TE-003	G41-TE-006	G41-DE-003	G41-XE-003
Region	EMEA/APAC							
Frequency Bands	1/3/5/7/28U/40		1/3/5/7/8/28L/41	1/3/41			1/3/28L	1/3/8
Dual Relay Bands	1 3							
Box Contents	Main Unit							
	1x Donor Antenna (A21-100-100)					1x Donor Antenna (A21-100-100)		
	1x Server Antenna (A51-100-100)							
	1x AC Adapter							
	4x Mounting Screws							
	4x Drywall Anchors							
	1x Category Cable							
	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)				
Kit Shipping Weight (lbs (kg))	4.2 (1.88)		3.3 (1.50)			3.5 (1.59)	3.3 (1.50)	
GTIN-12 (UPC)	812037033377		812037033346	812037033650	812037034206	812037034503	812037034268	812037033278
Harmonized Tariff Schedule (HTS)	8517.18.00.50							
Export Control Class Number (ECCN)	EAR99							

KIT#	G41-LE-003		G41-LE-006	G41-IE-003	G41-JE-00E
Region	EMEA/APAC				
Frequency Bands	1/3		3	1/3/5/7/8/28L/40	
Dual Relay Bands	1 3			1 3	
Box Contents	Main Unit				
		1x Donor Antenna (A21-100-100)			
				LTE Modem (LTEM-EU)	
	1x AC Adapter				
	4x Mounting Screws				
	4x Drywall Anchors				
	1x Category Cable				
	Quick Installation Guide				
Kit Shipping Dimensions (in (mm))	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)	
Kit Shipping Weight (lbs (kg))	3.3 (1.50)	3.5 (1.59)		3.3 (1.50)	4.1 (1.85)
GTIN-12 (UPC)	812037034237		812037034251	812037032820	812037033568
Harmonized Tariff Schedule (HTS)	8517.18.00.50				
Export Control Class Number (ECCN)	EAR99				

CEL-FI GO G41 Outline



Product specifications are subject to change without prior notification.