NEXTIVITY
Smarter by Design

Data Sheet

CEL-FI GO G51

Self-Configuring 5G NR Cellular Coverage Solution

KIT#: G51-LE-001, G51-LE-002, G51-LE-003, G51-LE-00E, G51-ME-001, G51-ME-002, G51-ME-003, G51-ME-00E G51-PE-001, G51-PE-003, G51-TE-003 & G51-TE-00A



CEL-FI GO G51

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

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Bringing the power of the macro 5G network indoors, CEL-FI GO G51 solves coverage challenges for the shorter range of mid-band 5G NR. The system delivers industry-leading signal gain up to 100 dB to overcome mid-band 5G NR coverage challenges that no other solution can. In addition to unmatched performance, GO G51 is compact, easy to use, and does not require manual configuration, making it easier than ever before for building owners to equip their buildings with 5G connectivity and ensure better voice quality, 5G data speeds, and fewer dropped calls. GO G51 is perfect for small- to medium-sized buildings, operator-approved, unconditionally network safe, and offers the flexibility to support various 2G/3G/4G and 5G cellular networks.

Features and benefits include:

- Mid-band (2.5 & 3.5 GHz) 5G NR coverage with 100 MHz channel bandwidth
- Dual band relay to overcome 2G/3G/4G coverage with mid-band 5G NR
- Powered by the latest 4th generation Nextivity proprietary IntelliBoost chip, delivering industry-leading and unconditionally network safe performance
- Compliant with the 3GPP Release 17 NR standard
- Ease of remote monitoring and management with Nextivity WAVE Portal and WAVE App

Specifications

Frequency Bands	n78, n41 and 1, 3, 5, 7, 8, 20, 28
Relay Channel Bandwidths	Up to 100 MHz and 5, 10, 15, 20 MHz
Networks	2G/3G/4G/5G
Network Protocols	GSM/WCDMA/LTE/NR
Network Selection	Automatically best available (WAVE App and WAVE Portal for manual setting)
Network Operator	Configurated to authorized operator PLMN-IDs
Duplex Modes	FDD and TDD
# of Relay Bands	2
Relay Bandwidth	100 MHz + 20 MHz max.
Output Downlink Power (Bands 1, 3, 5, 7, 8, 20, 28)	20 dBm (16 dBm in U.K.) max.
Output Downlink Power (Band n78/n41)	27 dBm max.
Output Uplink Power (Band n78/n41)	24 dBm max.
Output Uplink Power (Bands 1/3/7)	22 dBm max.
Output Uplink Power (Bands 5/8/20/28)	20 dBm max.
System Gain	100 dB max.
Enterprise-Grade Echo Cancellation	30 dB min.
Return Loss	8 dB typ.
Impedance	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	20
5	869-894	824-849	20
7	2620-2690	2500-2570	20
8	925-960	880-915	15
20	791-821	832-862	20
28L	758-788	703-733	20
28	758-803	703-748	20
n41	2496-2690	2496-2690	100
n78	3300-3800	3300-3800	100

Interface

Donor RF Connector	SMA (f)
Server RF Connector	SMA (f)
DC Input	5.5 x 2.1 mm (f) Barrel
LAN	RJ45 Jack
Device Setup	LAN for WAVE Portal Bluetooth for WAVE App
Power and System Status	Bi-color LED (Green/Red)
LAN Status	Bi-color LED (Green/Red)
USB	USB 2.0 Micro-B for Wave Field Tool
System Management and SW Updates	WAVE App for iOS 11.0 or later WAVE App for Android WAVE Portal for Desktop

Compliance

3GPP	3GPP TS 25.143 Rel 13 3GPP TS 36.143 Rel 13 3GPP TS 38.106 Rel 17
CE	Compliant RED 2014/53/EU ErP 2009/125/EC
RoHS3	EN 63000: 2018
OFCOM	VTS 2102
ACMA	EN 55032:2015
R-NZ	AS/NZS 4268:2017
Bluetooth	LE Ver 4.2

Power Supply

Power Consumption	60 W max.
AC Cable Plug	Type C (EU) or Type I (AUS) or Type G (UK)
AC Cable	18 AWG
AC Cable Length	6 ft (1.8 m)
DC Cable Length	3.3 ft (1 m)
DC Cable	16 AWG

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	10.44 x 6.77 x 2.72 in (265.2 x 172.0 x 69.2 mm)
Main Unit Weight	4.8 lbs (2.2 kg)
Thermal Output	176 BTU/Hr

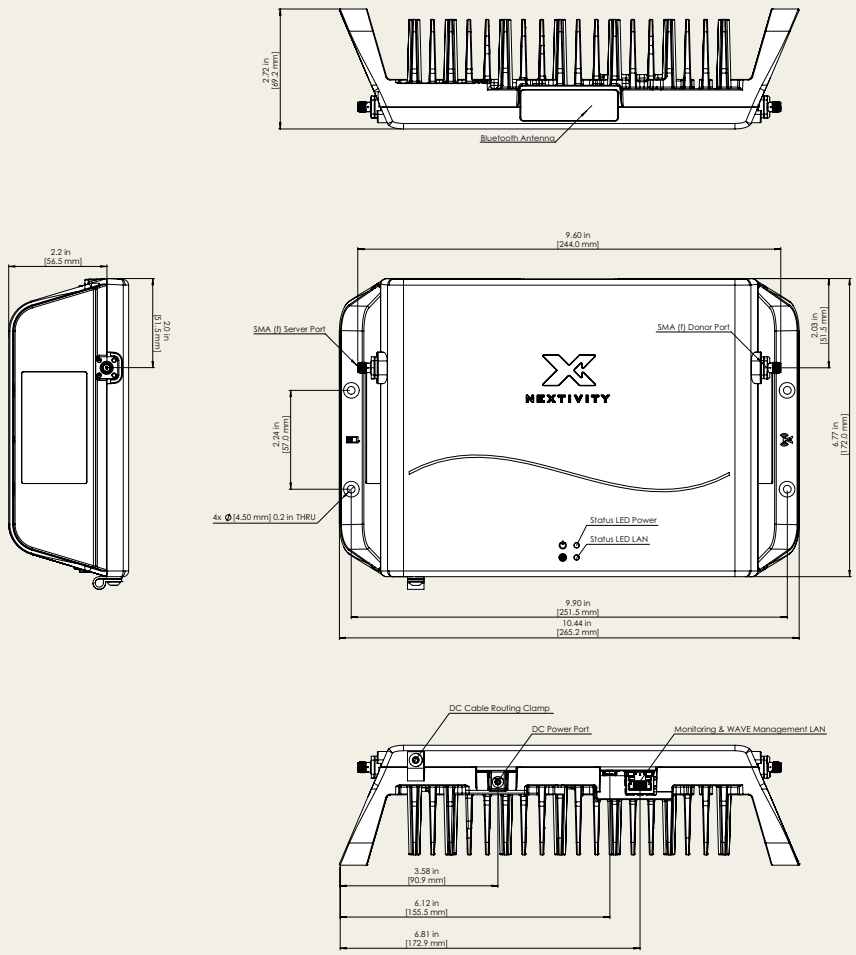
Ordering Information

KIT#	G51-ME-001	G51-ME-002	G51-ME-003	G51-ME-00E
Region	EMEA	EMEA	EMEA	EMEA
Frequency Bands	n78 and 1, 3, 5, 7, 20	n78 and 1, 3, 5, 7, 20	n78 and 1, 3, 5, 7, 20	n78 and 1, 3, 5, 7, 20
Box Contents	Main Unit	Main Unit	Main Unit	Main Unit
	1x Donor Antenna (A21-ML3-601)	1x Donor Antenna (A21-ML3-601)		
	1x Server Antenna (A41-NL3-100)	1x Server Antenna (A41-NL3-100)		
	10 m RG58 Cable (C200-RG58-10)	10 m LMR195 Cable (C200-195-10)		
	AC Adapter	AC Adapter	AC Adapter	AC Adapter
	4x Mounting Screws	4x Mounting Screws	4x Mounting Screws	4x Mounting Screws
	4x Drywall Anchors	4x Drywall Anchors	4x Drywall Anchors	4x Drywall Anchors
	Quick Installation Guide	Quick Installation Guide	Quick Installation Guide	Quick Installation Guide
				LTE Modern (LTEM-EU)
	1x Category Cable	1x Category Cable	1x Category Cable	1x Category Cable
Kit Shipping Dimensions	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)
Kit Shipping Weight	7.7 lbs (3.5 kg)	7.7 lbs (3.5 kg)	6.9 lbs (3.13 kg)	7.7 lbs (3.5 kg)
GTIN-12 (U.P.C.)	812037033681	812037033995	812037033445	812037034480

KIT#	G51-LE-001	G51-LE-002	G51-LE-003	G51-LE-00E
Region	EMEA/APAC	EMEA/APAC	EMEA/APAC	EMEA/APAC
Frequency Bands	n78 and 1, 3, 5, 7, 8, 28L	n78 and 1, 3, 5, 7, 8, 28L	n78 and 1, 3, 5, 7, 8, 28L	n78 and 1, 3, 5, 7, 8, 28L
Box Contents	Main Unit	Main Unit	Main Unit	Main Unit
	1x Donor Antenna (A21-ML3-601)	1x Donor Antenna (A21-ML3-601)		
	1x Server Antenna (A41-NL3-100)	1x Server Antenna (A41-NL3-100)		
	10 m RG58 Cable (C200-RG58-10)	10 m LMR195 Cable (C200-195-10)		
	AC Adapter	AC Adapter	AC Adapter	AC Adapter
	4x Mounting Screws	4x Mounting Screws	4x Mounting Screws	4x Mounting Screws
	4x Drywall Anchors	4x Drywall Anchors	4x Drywall Anchors	4x Drywall Anchors
	Quick Installation Guide	Quick Installation Guide	Quick Installation Guide	Quick Installation Guide
				LTE Modern (LTEM-EU)
	1x Category Cable	1x Category Cable	1x Category Cable	1x Category Cable
Kit Shipping Dimensions	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)
Kit Shipping Weight	7.7 lbs (3.5 kg)	7.7 lbs (3.5 kg)	6.9 lbs (3.13 kg)	7.7 lbs (3.5 kg)
GTIN-12 (U.P.C.)	812037033674	812037033759	812037033438	812037034541
Harmonized Tariff Schedule (HTS)	8517.62.00.90	8517.62.00.90	8517.62.00.90	8517.62.00.90
Export Control Classifications Number (ECCN)	EAR99	EAR99	EAR99	EAR99

KIT#	G51-PE-001	G51-PE-003	G51-TE-003	G51-TE-00A
Region	EMEA/APAC	EMEA/APAC	EMEA/APAC	EMEA/APAC
Frequency Bands	n41 and 1/3/8/28	n41 and 1/3/8/28	n41 and 1/3	n41 and 1/3
Box Contents	Main Unit	Main Unit	Main Unit	Main Unit
	1x Donor Antenna (A21-ML3-601)			1x Donor Antenna (A21-ML3-601)
	1x Server Antenna (A41-NL3-100)			1x Server Antenna (A41-NL3-100)
	10 m RG58 Cable (C200-RG58-10)			25 m LMR195 Cable (C200-195-25)
	AC Adapter	AC Adapter	AC Adapter	AC Adapter
	4x Mounting Screws	4x Mounting Screws	4x Mounting Screws	4x Mounting Screws
	4x Drywall Anchors	4x Drywall Anchors	4x Drywall Anchors	4x Drywall Anchors
	Quick Installation Guide	Quick Installation Guide	Quick Installation Guide	Quick Installation Guide
	1x Category Cable	1x Category Cable	1x Category Cable	1x Category Cable
Kit Shipping Dimensions	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)
Kit Shipping Weight	7.7 lbs (3.5 kg)	6.9 lbs (3.13 kg)	6.9 lbs (3.13 kg)	7.7 lbs (3.5 kg)
GTIN-12 (U.P.C.)	812037033575	812037032738	812037033643	812037033636
Harmonized Tariff Schedule (HTS)	8517.62.00.90	8517.62.00.90	8517.62.00.90	8517.62.00.90
Export Control Classifications Number (ECCN)	EAR99	EAR99	EAR99	EAR99

CEL-FI GO G51 Main Unit Outline



Product specifications are subject to change without prior notification.

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