NEXTIVITY
Smarter by Design

Data Sheet

CEL-FI GO G51

Auto-Configuring 5G NR Cellular Coverage Solution

KIT#: G51-CE-003

CEL-FI GO G51

The CEL-FI GO G51 brings auto-configuring single-operator 4G and 5G coverage to buildings across AMER, purpose-built for the indoor n77 C-band challenge. Engineered as a network-safe solution with industry-leading gain up to 100 dB, it relays a low/mid LTE/NR band alongside n77 simultaneously, delivering reliable service for FirstNet 5G. Installs finish in hours, not days, with easy commissioning. Managed end-to-end through the WAVE App, WAVE Field Tool, and WAVE Portal, GO G51 is the fast, affordable coverage answer for compact retail, branch, clinic, and light-industrial sites.

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

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Features and benefits include:

- Concurrent dual-band relay — Carries one LTE/NR band and n77 simultaneously, covering voice, data, and 5G.
- Industry-leading 100 dB gain — Maximum gain conquers the weak outdoor n77 C-band coverage challenge.
- Network-safe by design — Operates unconditionally and provider-specific, protecting carrier networks while boosting signal without interference.
- Auto-configuring channel selection so the unit tunes itself based on operator selection, reducing installation complexity.
- Management suite — WAVE App, WAVE Pro App, WAVE Field Tool, and WAVE Portal — handles survey, installation, and remote monitoring at no charge.
- FirstNet 5G ready — Optimized for AMER mid-band, delivering reliable indoor coverage for public-safety and enterprise users.

Specifications

Frequency Bands	77, and 2, 12, 14, 17, 25
Relay Channel Bandwidths	Up to 100 MHz and 5, 10, 15, 20 MHz
Networks	4G/5G
Network Protocols	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 2, 12, 14, 17, 25)	20 dBm max.
Output Downlink Power (Band n77)	27 dBm max.
Output Uplink Power (Band n77)	24 dBm max.
Output Uplink Power (Bands n77)	22 dBm max.
Output Uplink Power (Bands 2, 12, 14, 17, 25)	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)
2, n2	1930-1990	1850-1910	20
312, n12	729-746	699-716	15
17	734-746	704-716	10
14, n14	758-768	788-798	10
25, n25	1930-1995	1850-1915	20
n77	3700-3980	3700-3980	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

FCC	Compliant Part 15, Part 20, Part 22, Part 24, Part 27, Part 90
RoHS3	EN 63000: 2018
ISED	Compliant
UL	Compliant
Bluetooth	LE Ver 4.2

Power Supply

Power Consumption	60 W max.
Input Voltage	12 V DC
Input Current	5 A DC
AC Cable Plug	Type A (US)
AC Cable	18 AWG
AC Cable Length	6 ft (1.8 m)
DC Cable Length	3.3 ft (1 m)
DC Cable	16 AWG

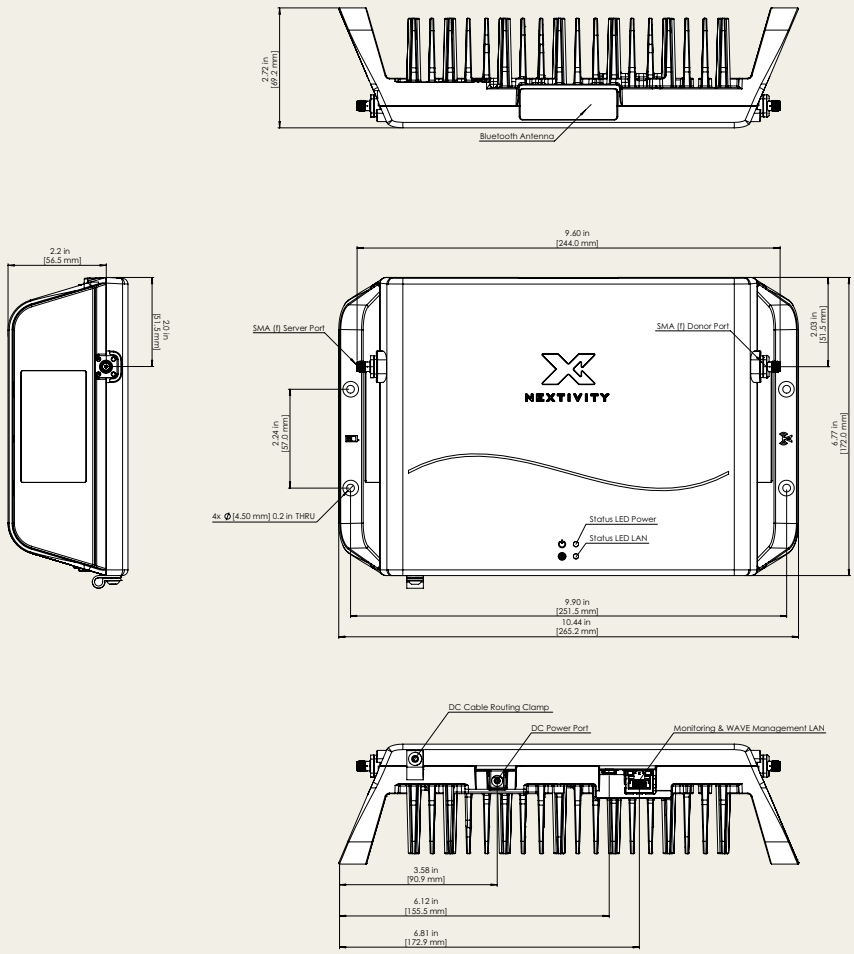
Environmental

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

Ordering Information

KIT#	**G51-CE-003**
Region	AMER
Frequency Bands	77 and 2, 12, 14, 17, 25
Box Contents	Main Unit AC Adapter 4x Mounting Screws 4x Drywall Anchors Quick Installation Guide 1x Category Cable
Kit Shipping Dimensions	11.18 x 9.02 x 4.61 in (284 x 229 x 117 mm)
Kit Shipping Weight	7.7 lbs (3.5 kg)
GTIN-12 (U.P.C.)	812037033681
Harmonized Tariff Schedule (HTS)	8517.62.00.90
Export Control Classifications Number (ECCN)	EAR99

CEL-FI GO G51 Main Unit Outline



Product specifications are subject to change without prior notification.