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Nextivity CEL-FI GO G51 Stationary Repeater

SKU
RPR-CF-00716
MPN
G51–LE–003

Description

Following the technological evolution of the Cel-Fi G41, the G51 is next in the series, providing all the brilliance of the G41 with the addition of mid-band 5G. G51 automatically scans and boosts the entire channel width of 5G 3500 MHz, which is the major global 5G band known as n78, along with boosting a 4G band to provide long range connectivity.

G51 is essential for any tech professional, enterprise, or industrial environment looking to leverage the low latency and ultra-fast data performance that 5G brings. Unlike complicated "Private 5G" networks or DAS which can take 6-12 months to implement, G51 can be installed in as little as a few hours. The unit identifies and locks on to the network operator's 5G network, and can be connected to one or many antennas distributed throughout the building to provide seamless, strong voice and data connectivity.

Cel-Fi G51 is a very straight forward device, it has a single input RF connector which connects to a roof-mounted (donor) antenna, and a single output RF connector which connects to an indoor (service) antenna. Powertec provide a range of 5G-compatible antennas that have been laboratory verified for best performance on n78 5G.

The output power of G51 is +20 dBm for most bands. It's important to be mindful that while the stated output power for n78 is +27 dBm, the larger 100 MHz channel width (up to 5x wider than 4G) means that more power is required to lift the channel to the same level of output power (per MHz) as its 4G channels, rather than being used to deliver a larger coverage footprint.



NEXTIVITY

Nextivity

Nextivity, Inc. develops and sells in-building cellular coverage technology products and solutions. The Company helps wireless subscribers and increases radio frequency network capacity for mobile network operators. Nextivity operates in the State of California.

Nextivity is best known for its Cel-Fi range of mobile repeater solutions which provide low cost improved in-building coverage solutions.

RF Specification

Simultaneous Bands
2
Downlink Max. Gain
100 dB
Supported Technologies
4G LTE, 5G NR
Relay Bandwidth
120 MHz
Uplink Max. Gain
100 dB
Supported Bands

Frequency Band	Duplex Method	MIMO	Downlink Output Power	Uplink Output Power	Max. Channel Width	Downlink Start Frequency	Downlink Stop Frequency	Uplink Start Frequency
B1 (2100 MHz)	FDD	1x1 SISO	20 dBm	22 dBm	20 MHz	2110 MHz	2170 MHz	1920 MHz
B3 (1800 MHz)	FDD	1x1 SISO	20 dBm	22 dBm	20 MHz	1805 MHz	1880 MHz	1710 MHz
B5 (850 MHz)	FDD	1x1 SISO	20 dBm	20 dBm	20 MHz	869 MHz	894 MHz	824 MHz
B7 (2600 MHz)	FDD	1x1 SISO	20 dBm	22 dBm	20 MHz	2620 MHz	2690 MHz	2500 MHz
B8 (900 MHz)	FDD	1x1 SISO	20 dBm	20 dBm	15 MHz	925 MHz	960 MHz	880 MHz
B20 (800 MHz)	FDD	1x1 SISO	20 dBm	20 dBm	20 MHz	791 MHz	821 MHz	832 MHz
B28 (700 MHz)	FDD	1x1 SISO	20 dBm	20 dBm	20 MHz	758 MHz	788 MHz	703 MHz
n78 (3500 MHz)	TDD	1x1 SISO	27 dBm	24 dBm	100 MHz	3300 MHz	3800 MHz	3300 MHz

RF Connections

RF Connector Function	Quantity	RF Interface	Notes
Donor Input	1	SMA Female	
Service Output	1	SMA Female	

Network Interfaces

Wireless Interfaces
Bluetooth Interface
Protocol
Bluetooth 4.2
Power Class
Class 3
Ethernet Interfaces

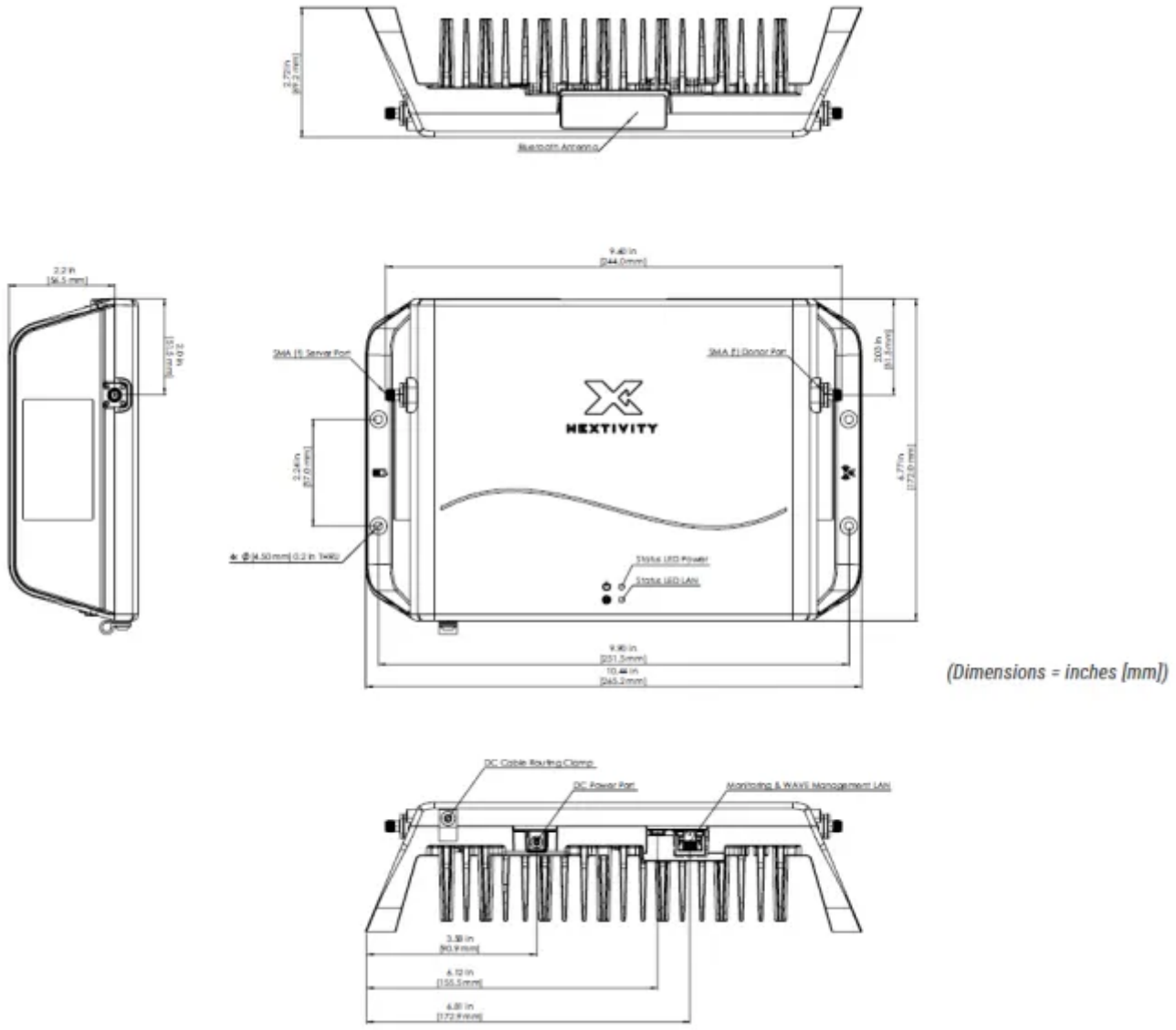
Interface	Quantity	Function	Signalling
RJ45 Copper	1	Management	100BASE-T

Physical Specification

Ingress Protection
IPX0
Mounting
Screw / Bolt
Dimensions
265.2 × 172 × 69.2 mm
Compliance/Certifications
CE
,
R-NZ
,
RCM
,
RoHS
Min. Operating Temperature
0 °C
Max. Operating Temperature
40 °C
Weight
2.2 kg
Device Power Specifications
Max. Consumption
60 W
Power Interface

Power Connector	Min. Input Voltage	Max. Input Voltage	Voltage Type	Input Current
DC Coaxial, Type A, Female 5.5 x 2.5 mm	9 V	13 V	DC	2.5 A

Drawing



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