

DATA SHEET MODEL NUMBERS: G41-9E G41-JE G41-NE

Designed to solve cellular coverage issues for indoor environments, the Cel-Fi GO G41 Smart Signal Repeater is the most powerful carrier-grade solution available. Providing up to 100 dB gain, GO G41 delivers class-leading 3G/4G/5G voice and data performance. GO G41 also supports 5GNR operation for seamless network migration and consistent connectivity. In addition to providing cellular coverage up to 3,000 m² (1,500 m² in U.K.) when configured with the included donor and server antennas, the system can be expanded with outdoor or additional server antennas for an increased coverage footprint. Plus, GO G41 is network safe and offers class-leading ease of installation.



Key Features	 Improves Cellular Coverage Simple Management Through Cel-Fi WAVE System Deploy the Unit Anywhere in the Network With Full Frequency Coverage Up to 3,000 m² (1,500 m² in U.K.) Coverage Area Support for Dynamic Spectrum Sharing (DSS) 						
System Features	Smart Signal Repeater Multiple Installation options supported LED User Indicators for Status Simple, built-in, self-test SMA-Female RF Connectors for Donor and Server, for flexible deployment Support for Cel-Fi WAVE mobile application suite, as well as Cel-Fi COMPASS Ethernet port for easy connectivity to Cel-Fi WAVE Portal for professional installers Convection cooling						
Wireless Features	Carrier Grade, Smart Signal Repeater 3G/4G/5G NR Up to 100 dB gain Multiple RF Front End configurations available Total system relay bandwidth: Up to 40 MHz Relays two (2) bands simultaneously (up to 20 MHz each) Supports multiple channels per band in bands 1, 3 and 7 Advanced digital echo cancellation						
Mobile Network & Network Protection Features	Automatic configuration of all system parameters Provider-specific system: Cel-Fi distributes and boosts service only for the Operator PLMN-IDs for which the device is authorized and configured Secure and ciphered provisioning System intelligence accurately establishes proper safe uplink power in real time Uplink Muting Mode automatically shuts down uplink cellular transmissions when no active user equipment is detected Supports Dynamic Spectrum Sharing (DSS) Nextivity purpose-built, high-performance, six core ASIC processor, provides best performance at lowest cost						
Wireless Benefits							
System Benefits	Clear and reliable cellular connections within coverage area up to 3,000 m ² (1,500 m ² in U.K.) per system Highest gain (100 dB) provides best coverage footprint Advanced Echo-Cancellation allows Cel-Fi to transmit more power with lower antenna isolation requirements giving th largest coverage footprint. Linearity eliminates IMD desense issues Dynamic gain control ensures maximum gain – best coverage – at all times in ever changing RF environments, withous user intervention						
Mobile Network Benefits	Flexibly deploy on LTE, DSS, 5G, VoLTE, LTE-Advanced, NB-IoT and WCDMA networks Automatically adjusts channel bandwidths UE control is transparent and remains centralized in the network core (no gateways or third-party software)						

Compliance (check individual product regional compliance)	3GPP TS 25.143 Rel.13 3GPP TS 36.143 Rel.13 Bluetooth BQB CE ACMA (Australia) (G41-JE/G41-NE) R-NZ (New Zealand) (G41-JE/G41-NE)								
System Management (Software)	Via Cel-Fi WAVE cloud Portal using built-in Ethernet port Cel-Fi WAVE Portal capability: • Status (list and map) • Settings • Commissioning • Reporting • Alarms & Notifications • Diagnostics • Software Updates								
Antenna Ports (Donor and Server)	Impedance: 50 Ohms Port-to-port Isolation: >110 dB Connector: SMA FEMALE Return Loss: <-8 dB								
Environmental	Operating temperature: 0°C to 40°C Convection Cooling Relative humidity: 0% to 95%, non-condensing RoHS (European and China compliant) CE IP Rating: 20								
Power Consumption	40W (max	()							
Dimensions	Height 63 mm		Width 107 mm			Length 260 mm	Weight 2 kg		
Installation									
Radio Performance	Downlink Power/Per Band Uplink Power/Per Band								
		All Bands	1	0 dBm		Bands 1, 3, 7, 40 22 dBm			
	All Bands	s (UK license exempt)	10	16 dBm		Bands 5, 8, 20, 28L, 28U	20 dBm		
Radio	Noise Figure: 7 dB Return Loss: -8 dB								
Group Delay	LTE 5 MH	z – 20 MHz = 5.5 us							
Band Configurations	Band		•			lwidth			
	1	2110-2170 MH	5–1880 MHz 1710–1785 MHz 9–894 MHz 824–849 MHz		-	Up to 20 MHz per carrier, 2 carriers			
	3					Up to 20 MHz per carrier, 2 carriers Up to 15 MHz per carrier, 1 carrier			
	7	2620-2690 MHz				Up to 20 MHz per carrier, 1 carrier (2 in G41-9E)			
	8	925-960 MHz	880-915 MHz		MHz	Up to 15 MHz per carrier, 1 carrier			
	20	791-821 MHz	832-862 MHz			Up to 20 MHz per carrier, 1 carrier			
	28L 758–788 MHz 703–733 MHz 40 2300 - 2390 MHz (TDD LTE)		MHZ	Up to 20 MHz per carrier, 1 carrier Up to 20 MHz per carrier, 1 carrier					
Diverse the (IE) (ev. 4.9)				× /					
Bluetooth (LE Ver 4.2)		Frequency 02 - 2480 MHz	Power 0 dBm						
			Crossover Kit #			Items includ	led.		
Band Variations			Band		• GO G4				
	Model # Kit # Bands -001					Adaptor			
	G41-9E	-002 1, 3, 7, 8, 20	1, 3, 7			Antenna (A21-V33-100) Antenna with 8M Cable (A51-10	D0-100)		
	G41-JE	-003 -001 -002 -003 28L, 40	1, 3	-002	 GO G41 Unit Power Adaptor Whip Antenna (A21-V33-100) Patch Antenna with 1M Cable (A51-101-100) 				
	G41-NE	-001 -002 -003 1, 3, 5, 7, 28U, 40	1, 3	-003	• GO G4 • Power		E.		
	Copyright © 2022 by Nextivity, Inc, U.S. All rights reserved. The Nextivity and Cel-Fi logos are registered trademarks of Nextivity Inc. All other trademarks or								

Copyright © 2022 by Nextivity, Inc, U.S. All rights reserved. The Nextivity and Cel-Fi logos are registered trademarks of Nextivity Inc. All other trademarks or registered trademarks listed belong to their respective owners. Designed by Nextivity in California. data_go-g41_repeater_22-0402

