

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 Booster 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 m<sup>2</sup> (1,500 m<sup>2</sup> 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	<ul> <li>Improves cellular coverage</li> <li>Simple management through Cel-Fi WAVE system</li> <li>Deploy the unit anywhere in the network with full frequency coverage</li> <li>Up to 3,000 m<sup>2</sup> (1,500 m<sup>2</sup> in U.K.) coverage area</li> <li>Support for Dunamic Spectrum Charing (DCC)</li> </ul>						
	Support for Dynamic Spectrum Sharing (DSS)						
System Features	Smart Signal Booster 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 Booster 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							
Wireless Benefits	Distribute and boost cellular coverage 3G, 4G, and 5G support, Voice and Data, network safe LED cues provide visual feedback for ease of set up and status Works with any User Equipment (UE) from the designated Operator Supports in-band and guard-band NB-IoT deployments						
System Benefits	Clear and reliable cellular connections within coverage area up to 3,000 m <sup>2</sup> (1,500 m <sup>2</sup> 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, witho 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)						

<b>Compliance</b> (check individual product regional compliance)	3GPP TS 3 Bluetooth CE ACMA (Au	6.143 Rel.13							
System Management (Software)	Via Cel-Fi WAVE cloud Portal using built-in Ethernet port Cel-Fi WAVE Portal capability: • Status (list and map) • Alarms & Notifications • Diagnostics • Software Updates • Commissioning • Reporting								
<b>Antenna Ports</b> (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								
<b>Power Consumption</b>	40W (max	)							
Dimensions		W	Width		Length	Weight			
Dimensions		Height 63 mm		107 mm		260 mm	2 kg		
Installation	Wall-mour	nting hardware include	h			· · · · ·			
Radio Performance						Unlink Dower	/ Der Der d		
Radio Performance		Downlink Powe All Bands				Uplink Power / Per Band           Bands 1, 3, 7, 40         22 dBm			
	All Bands		20 dBm 16 dBm		Bands 5, 8, 20, 28L, 28U	20 dBm			
Radio	Noise Figure: 7 dB       Return Loss: -8 dB								
Group Delay	LTE 5 MHz – 20 MHz = 5.5 us								
Band Configurations					nk Bandwidth				
Bana Comigarations	1	2110-2170 MHz	1920	<b>Uplink</b> 1920-1980 MHz		Up to 20 MHz per carrier, 2 carriers			
	3	1805-1880 MHz	1710	1710-1785 MHz		Up to 20 MHz per carrier, 2 carriers			
	5	869-894 MHz		824-849 MHz		Up to 15 MHz per carrier, 1 carrier			
	7	2620-2690 MHz		2500-2570 MHz		Up to 20 MHz per carrier, 1 carrier (2 in G41-9E)			
	8	925-960 MHz		880-915 MHz		Up to 15 MHz per carrier, 1 carrier			
	20 28L	791-821 MHz 758-788 MHz		832-862 MHz 703-733 MHz		Up to 20 MHz per carrier, 1 carrier Up to 20 MHz per carrier, 1 carrier			
	40		90 MHz (TDD LTE)		12	Up to 20 MHz per carrier, 1 carrier			
Bluetooth (LE Ver 4.2)			D	ower					
	Freguency         Power           2402 - 2480 MHz         0 dBm								
				Kit #		Items include	d.		
Band Variations			Crossover Band		GO G41				
	Model # Kit # Bands Support . Power Adaptor								
	-001 • Whip Antenna (A21-V33-100)						V O		
	G41-9E	<b>-002</b> 1, 3, 7, 8, 20	1, 3, 7			Antenna with 8M Cable (A51-100	-100)		
		-001		I I	GO G41	7-			
	G41-JE	12570	1, 3	-002	<ul> <li>Power Adaptor</li> <li>Whip Antenna (A21-V33-100)</li> <li>Patch Antenna with 1M Cable (A51-101-100)</li> </ul>				
	G41-NE	200.40	1, 3	-0031	GO G41 Power	l Unit Adaptor	a W		
		-003							

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