CEL-FI GO G41
2110~2390 MHz

Smart Signal Repeater / 3G / 4G / 5G

Key Features

Designed to solve cellular coverage issues for indoor environments, the **Cel-Fi GO G41** 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

Advantages

- ☑ 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 m^2 (1,500 m^2 in U.K.) coverage area
- ☑ Support for Dynamic Spectrum Sharing (DSS)

Specifications

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

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 m2 (1,500 m2 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 the largest coverage footprint.
Linearity eliminates IMD desense issues
Dynamic gain control ensures maximum gain — best coverage — at all times in ever changing RF environments, without 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

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

Via Cel-Fi WAVE cloud Portal using built-in Ethernet port	
Cel-Fi WAVE Portal capabilty	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
Relative humidity	0% to 95%, non-condensing
IP Rating	20
RoHS (European and China compliant)	
CE	
Convection Cooling	

Power Consumption

40W (max)

Dimensions

Height	***Width***	***Length***	***Weight***
63 mm	107 mm	260 mm	2Kg

Installation

Wall-mounting hardware included

Radio Performances

Downlink Power / Per Band		*Uplink Power / Per Band*	
All bands	20 dBm	Bands 1, 3, 7, 40	22 dBm
All bands (UK license exempt)	16dBm	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

Radio Performances

Band	*Downlink*	*Uplink*	*Bandwidth*
1	2110–2170 MHz	1920–1980 MHz	Up to 20 MHz per carrier, 2 carriers
3	1805–1880 MHz	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	791–821 MHz	832–862 MHz	Up to 20 MHz per carrier, 1 carrier
28L	758–788 MHz	703–733 MHz	Up to 20 MHz per carrier, 1 carrier
40	2300 - 2390 MHz (TDD LTE)		Up to 20 MHz per carrier, 1 carrier

Bluetooth (LE Ver 4.2)

Frequency	*Power*
2402 – 2480 MHz	0 dBm

Band Variations

Model	Kit	Bands	Crossover band Support
SEL000571	-001	1, 3, 7, 8, 20	1, 3, 7
	-002		
	-003		
SEL000580	-001	1, 3, 5, 7, 8, 28L, 40	1, 3
	-002		
	-003		

-001	- GO G41 - Power - Whip Antenna (A21-V33-100) - Patch Antenna (A51-100-100)
-002	- GO G41 Unit - Power - Whip Antenna (A21-V33-100) - Patch Antenna (A51-100-100)
-003	- GO G41 - Power adaptor

For more information: www.see-critical.com

SEE CRITICAL COMMS | Version: V1911003EN | www.see-critical.com | Ref: 010226_DAT_CELFI_GOG41_GB
Writing: M. ANDRE | Design: V. RAOUL| Verification: J. COMBALOT | Approval: J. COMBALOT
©Copyright 2025 | All rights reserved. All data and information mentioned are non-contractual and subject to change anytime without any notice.
SEE GROUP: SEE CRITICAL COMMS 90 impasse des Chênes F26210LENS-LESTANG, FRANCE| | m: +33 6 85 67 47 85 | e: commercial@see.fr
SELECOM CRITICAL COMMS ZA Alfred Sauvy F66500 PRADES, FRANCE | f: +33 4 68 97 79 50 | e: commercial@selecom.fr