## CEL-FI **SOLO** 3G / 4G / LTE Smart Signal Booster...

The Cel-Fi SOLO Smart Signal Booster is designed to solve cellular coverage problems for voice and data. With up to 100dB of gain, it is the most powerful carrier grade solution available. The Cel-Fi SOLO covers up to 1,500 square meters of indoor space per system. Configure with included donor and server antennas, or expand options with outdoor or multiple server antennas. The Nextivity commitment is to protect the operator's network, deliver the best cellular performance, and be the easiest solution to install.

Boosts cellular coverage

Benefits:	<ul> <li>Data and Voice support, in one solution</li> <li>Deploy the unit anywhere in the network, with full frequency coverage</li> <li>Up to 1,500 m<sup>2</sup> coverage area</li> </ul>	application to aim an external antenna and ensure an optimal donor signal.	
System Features	Smart Signal Booster"         Multiple Installaton options supported.         LED User Indicators for Status         Simple, built-in, self-test         Unlocked: Cell phones do not need to be registered         Support for Cel-Fi WAVE mobile application         End-to-end cellular communication encryption without additional risk of vulnerability         Convection cooling		
Wireless Features	Carrier Grade, Smart Signal Booster 3G / 4G / LTE 100dB gain Five (5) RF front ends (check model number for bands specifics) 60 MHz relay bandwidth Relays three (3) channels simultaneously (up to 20 MHz each) Can simultaneously relay two (2) Band 1 signals // 3G and 4G LTE SMA RF Connectors for Donor and Server, for flexible deployment		
	Supports multiple channels with bandwidths of 5/10/15/20 MHz per channel Works with any user equipment (UE) on the configured network (no whitelist/blacklist) 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 System shuts down upon Operator's network command or failure detection Nextivity purpose-built, high-performance, six core ASIC processor, provides best performance at lowest cost		
Wireless Benefits	Distribute and boost cellular coverage 3G and 4G support, Voice and Data, network safe LED cues provide visual feedback for ease of setup and status Works with any subscriber device from the designated Operator Supports peaceful co-existence with guard band NB-IoT deployments		
System Benefits	Clear and reliable cellular connections within coverage area up to 15,000 ft <sup>2</sup> (1,500 m <sup>2</sup> ) per system Highest gain (100dB) provides best coverage footprint Advanced Echo-Cancelation allows Cel-Fi to transmit more power without feedback interference Subscriber devices (UE) require less transmit power for improved battery life 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			



Use Cel-Fi WAVE mobile

application to aim an external

DATA SHEET

MODEL NUMBER: H41-9B-xxx H41-AB-xxx

<b>Compliance</b> (check individual product regional compliance)	3GPP TS 36 143				
System Management (Software)	Cel-Fi WAVE Portal capability: • Status (list and map)	• Settings • Reporting • Alarms & Notifications	3		
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° to 40° C Convection Cooling Relative humidity: 0% to 95%, noncondensing RoHS (European and China compliant) CE IP Rating: 20				
Dimensions	Height	Width	Length	Weight	
	163 mm	158 mm	80 mm	1.8 kg	
Installation	Wall-mounting hardware incluc	led			

Radio Performance

Downlink Power		Uplink Power	
All Bands	20dBm	Bands 1,3	22dBm
		Bands 5, 8, 28L	20dBm

## Radio Noise Figure: 7 dB

Return Loss: -8 dBGroup DelayLTE 5MHz = 4.5 usLTE 10 MHz, 15 MHz, 20 MHz = 4 usWCDMA = 6.5 us

## Band Variations:

1, 3, 7, 8, 20 1, 3, 5, 8, 28L (Band 1 - 2 carriers)

Band	Downlink	Uplink	Bandwidth
1	2110-2170 MHz	1920-1980 MHz	Up to 20 MHz per carrier, 2 carriers
28L	758–788 MHz	703-733 MHz	Up to 20 MHz per carrier, 1 carrier
3	1805–1880 MHz	1710-1785 MHz	Up to 20 MHz per carrier, 1 carrier
5	869-894 MHz	824-849 MHz	Up to 20 MHz per carrier, 1 carrier
7	2620-2690 MHz	2500-2570 MHz	Up to 20 MHz per carrier, 1 carrier
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



