

The Cel-Fi SOLO Smart Signal Booster is designed to solve cellular coverage problems for voice and data. With up to 100 dB 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.



DATA SHEET

MODEL NUMBER:

H41-9B-xxx H41-AB-xxx

H41-9C-xxx H41-AC-xxx

Benefits:	 Boosts cellular coverage Data and Voice support, in one solution Deploy the unit anywhere in the network, with full frequency coverage Up to 1,500 m² coverage area 							
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 100 dB 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							
Mobile Network and Network Protection Features	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 ² (1,500 m ²) per system Highest gain (100 dB) 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	Flexibly deploy on LTE, VoLTE, LTE-Advanced, NB-IoT and WCDMA networks, with multiple cellular bands, simultaneously Automatically adjusts channel bandwidths between 5 MHz and 20 MHz 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. 3GPP TS 36. Bluetooth B0 CE ACMA (Aust R-NZ (New 2	143 QB ralia)								
System Management (Software)	Via Cel-Fi WAVE cloud portal Cel-Fi WAVE Portal capability: Status (list and map) Commissioning Diagnostics Software Updates 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 (max)	40W									
Dimensions		Height Width Length Weight								
	163	mm	158	mm		80 mm	1.8 kg			
Installation	Wall-mounting hardware included									
Radio Performance		Downlink	Power			Uplink	Power	1		
	All B	ands	20 dBm		E	Bands 1,3	22 dBm	-		
					Ban	ds 5, 8, 28L	20 dBm]		
Radio		Noise Figure: 7 dB								
Group Delay		Return Loss: -8 dB LTE 5 MHz = 5.5 us LTE 10 MHz, 15 MHz, 20 MHz = 5.5 us WCDMA = 7.5 us								
	LTE 10 MHz,									
Band Variations:	Band	Dow	nlink	Uplink		Ba	andwidth			
1, 3, 7, 8, 20 1, 3, 5, 8, 28L	1	2110-21		1920-1980			per carrier, 2 carriers			
(Band 1 - 2 carriers)	3	1805-18		1710-1785			per carrier, 1 carrier			
	5		94 MHz	824-849 N			per carrier, 1 carrier			
	7	2620-26		2500-2570			per carrier, 1 carrier			
	8	925-96		880-915 N			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								
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