Note: 5G functionality is pending carrier approvals; there is no ETA on the 5G functionality getting approved from the Australian carriers.

www.risingconnection.com.au

ABN 50 161 068 042

Solution for small businesses and residential

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 m² of indoor space per system. Configure with included donor and server antennas, or expand options with outdoor or multiple server antennas. The Cel-Fi commitment is to protect the operator's network, deliver the best cellular performance, and be the easiest solution to install.

4th generation Smart Cellular Coverage areas.







Smart Signal Booster

Cel-Fi SOLO





Key Technologies

IntelliBoost® Chipset

The Cel-Fi IntelliBoost baseband processor is the first six-core processor designed specifically to optimise the indoor transmission and reception of 3G/4G/5G wireless signals. With advanced filtering, equalisation and echo-cancellation techniques. Cel-Fi's architecture delivers unprecedented in-building data rates and pervasive 3G/4G/5G connectivity.

Network Safe

Self-organising edge intelligence ensures that Cel-Fi SOLO does not interfere with other indoor wireless products such as Wi-Fi routers, Small Cells and Distributed Antenna Systems (DAS). High speed Automatic Gain Control ensures that Cel-Fi SOLO is unconditionally network safe and enables more simultaneous calls and higher data speeds.

Cel-Fi WAVE

The Cel-Fi WAVE App is designed for users to activate, manage and troubleshoot the Cel-Fi SOLO. The app connects to the device via Bluetooth and is available on smartphones and tablets. It is globally trusted and built on carrier-grade security. The device data is synced to the WAVE Portal which allows for additional data modeling and reporting.

Key Features



Industry Leading 3G/4G/5G Voice and Data



15 Min Quick Install or Advanced Install with Additional Antennas



Smart Signal Booster with IntelliBoost® Chipset Smart Technology



Setup and Management App



Scalable Solution for up to 1500 m² per System



Network safe and Carrier Approved



Quick Installation



The Cel-Fi SOLO comes with a Cel-Fi Whip Antenna and Cel-Fi Patch Antenna. These can be used to get a system up and running in minutes.

Advanced Installations



If you need a more powerful donor antenna you can connect the Cel-Fi SOLO to an outdoor Wideband Directional Antenna. If you need to get coverage to more areas of your building, you can use Splitters and connect to multiple Server Antennas.



Specifications

System Features	Smart Signal Booster™						
	Multiple Installation 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						
	Optional: Integrated category 1 LTE modem for remote management (H41-xC-xxx variants include modem)						
Wireless Features	Carrier Grade, Smart Signal Booster						
	36 / 46 / 56						
	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 simulateously relay two (2) band i signals // 30 dilu 40 LTE						
Mobile Network and	Supports multiple channels with bandwidths of 5/10/15/20 MHz per channel						
Network Protection	Works with any user equipment (UE) on the configured network (no whitelist/blacklist)						
Features	Provider-specific system: Cel-Fi distributes and boosts service only for the Operator PLMN-IDs for which the device is authorised 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, 4G and 5G 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						



	Clear and reliable cellular connections within coverage area up to 15,000 ft² (1,500 m²) per system					
	Highest gain (100 dB) provides best coverage footprint					
	Advanced Echo-Cancellation 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					
	Nextivity purpose-built, high-performance, six core ASIC processor, provides best performance at lowest cost					
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 centralised in the network core (no gateways or third-party software)					
	Off-load the macro network in Supercell mode. or use to improve macro capacity and building propagation/penetration					
	UE control is transparent and remains centralised in the network core (no gateways or third-party software)					
	3GPP TS 25.143					
(check individual	3GPP TS 36.143					
compliance)	Bluetooth BQB					
	CE					
	RCM (Australia)					
	R-NZ (New Zealand)					
System Management (Software)	Via Cel-Fi WAVE cloud portal					
	Cel-Fi WAVE Portal capability:					
	Status (list and map) Commissioning					
	Diagnostics					
	Software Updates					
	• Settings					
	• Reporting • Alarms & Notifications					
	Impedance: 50 Ohms					
(Donor and Server)	Port-to-port Isolation: >110 dB					
	Connector: SMA FEMALE					
	Return Loss: <-8 dB					



Environmental	Operating temperature: 0°C to 50°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 L		Length		Weight			
	186 mm		186 mm	127 mr		l	1.8 kg			
Installation	Wall-mounting hardware included									
Radio Performance	Downlink Power				Uplink Power					
	All Bands 20 dBm			Bands 1, 3, 7		22 dBm				
				Bands !		5, 8, 20, 28L	20 dBm			
Radio	Noise Figure:7dB Return Loss: -8 dB									
Group Delay	LTE 5 M	Hz = 5.5 us								
LTE 10 MHz, 15 MHz, 20 MHz = 5.5 us										
	WCDMA = 7.5 us									
Band Variations	Band	d Downlink		Uplink		Bandwidth				
1, 3, 7, 8, 20	1	2110-2170 MHz		1920-1980 MHz		Up to 20 MHz per carrier, 2 carriers				
(Band 1 - 2 carriers)	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				
	28L 758-788 MHz		703-733 MHz		Up to 20 MHz per carrier, 1 carrier					



Cel-Fi SOLO Kits



Note: 5G functionality is pending carrier approvals; there is no ETA on the 5G functionality getting approved from the Australian carriers.

Why Rising Connection is using equipment designed and built by Nextivity?

- Designed and built for the most varied conditions in the world including Australian environment.
- Worldwide proven and respected Industry Experience including in the Australian Telecommunications Industry.
- Expertise support and customer focused staff.
- Up to date with technology and bringing to market the best quality technology available for Reliable Commercial use

This demonstrates to Rising Connection that you will have the Quality, Reliability and Product Support.

PO Box 4107 Carlton NSW 2218

E-mail: info@risingconnection.com.au

on.com.au www.risingconnection.com.au

ABN 50 161 068 042

Trademarks and registered trademarks are the property of Rising Connection Pty Ltd. Nextivity Inc. or their respective owners. Specifications are subject to change without notice. Images shown may vary slightly from the actual product.