Specifications

| | External supply Power consum | Amp via externa 100 to 240 VAC ption less than 1 rovides power to | , 47 – 63Hz 20W max | | | | | |
|---|---|--|---|----------------------------|---|---------------------------|----------------------|--|
| Environmental | Storage tempe Convection Co | rature: -25° to 60' oling ity: 0% to 95%, nc | °C | | | | | |
| Installation | Mounting hardware included NU may be wall mounted (solid or hollow) CU may be wall or ceiling mounted 1 NU supports 1 to 4 CUs iBwave supported | | | | | | | |
| Radio Performance (check product version for specific band support) | DL Maximum N DL Maximum N UL Maximum OL Maximum UL p Maximum UL p Maximum DL p Maximum DL p | channel bandwid IU in-band donor IU survival donor CU donor level -20 power 22dBm bar power 20dBm bar power 10dBm per power 10dBm per D MHz and WCDM | level -40dBm level 30dBm dBm. nds 1, 2, 3, 4, 7 nd 5, 8, 12, 13, 20 5 MHz bands 1, 5 MHz bands 5, | 2, 3, 4, 7 8, 12, 13, 2 | 20 | dwidth pe | r channel) | |
| Physical Specifications | Network Unit Coverage Unit 264 x 185 x 62mm 225 x 185 x 37mm 1.2 kg (40.8 oz.) 0.83 kg (29.2 oz.) | | | | | | | |
| Connections | 4x CU RJ45 Proprietary Gigabit link 100m max CU cable length Cat5e 200m max CU cable length with Cel-Fi QUATRA Range Extender (Cat5e or Cat6) PoE IEEE 802.3at RJ45 LAN management port (10/100 Fast Ethernet) RJ45 LAN management output port (10/100 Fast Ethernet) 2x MIMO External RF Input (QMA Female 50 ohm) | | | | | | | |
| Compliance (check individual product version for specific regional compliance) | 3GPP TS 25.14 3GPP TS 36.14 CE FCC Part 15, 20 ISED Canada UL 62368-1/CS Bluetooth BQB RCM R-NZ | 3 Rel.10), 22, 24, 27 | | | | | | |
| System Management (software) | e) Cel-Fi WAVE Remote Management: • Status (list and map) • Diagnostics • Alarms & Notifications • Settings | | | | | | | |
| | Commissioning · Software Updates · Reporting Product Model Frequency Bands MIMO Crossover | | | | | | Crossover | |
| | Name | Number | (MHz) | | Supported | Support | Support | |
| | QUATRA 1000 QUATRA 1000 QUATRA 1000 | Q34-2/4/5/12 Q34-2/4/5/13 Q34-1/3/8/20 | 1900 / 1700 / 850 1900 / 1700 / 850 2100 / 1800 / 900 | / 700c 0 / 800 | 2, 4, 5, 12 2, 4, 5, 13 1, 3, 8, 20 | 4, 12 4, 13 3, 20 | 2, 5 2, 5 1, 8 | |
| | QUATRA 1000 QUATRA 1000 | Q34-1/3/7/8 Q34-1/7/8/20 | 2100 / 1800 / 260 2100 / 2600 / 900 | | 1, 3, 7, 8 1, 7, 8, 20 | 3, 7 7, 20 | 1, 8 1, 8 | |
| | QUATRA 1000 OUATRA 2000 | Q34-3/5/7/28 O34-4/5/12/13/25 | 1800/850/2600/7 1700/850/700a/700 | 00 APT | 3, 5, 7, 28 4, 9, 12, 13, 25 | <mark>3, 28</mark> n/a | 5, 7 n/a | |



CEL-FI QUATRA



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sales@powertec.com.au

brochure-quatra-powertec_18-0928



In-Building Cellular Solution



Scalable Coverage Area: Up to 5k m² per Network Unit

CEL-FI QUATRA

Mobile Coverage for Buildings

Spotty cellular coverage, poor voice quality, dropped calls, and dead zones continue to plague employees and visitors in middleprise buildings. Cel-Fi QUATRA is an Active DAS Hybrid that solves this problem. It is an affordable, all-digital solution. It provides uniform, high quality cellular signal throughout building, scalable to the size needed. Cel-FI QUATRA is carrier approved and guaranteed network safe.

Unlike older analog boosters and passive DAS technology, Cel-Fi QUATRA delivers a cellular signal that is up to 1000x stronger, utilising CAT5e cabling for RF and Power over Ethernet, with no signal attenuation right to the perimeter of the building. QUATRA can be installed in just days (compared to months typical of other solutions), and at a price point that meets the middleprise budget.

| () · · · · · · · · · · · · · · · · · · | Maximum Gain Industry Leading Off-air or Supercell |
|---|--|
| 00dB | for Voice and Data |

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Best Performance: Active DAS Hybrid with IntelliBoost[®] Chipset Smart Technology

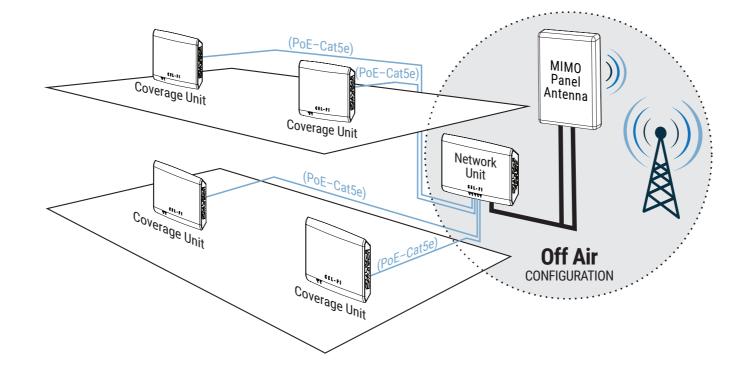
((Cellular

Cellular Coverage: Models available for different carriers Ease of Setup: Built for Installers with RFoE / PoE

and Maximised by AntennaBoost^{**}

Cel-Fi WAVE: Remote Monitoring and Management Platform

Network Safe: Carrier Approved



CEL-FI QUATRA SOLUTION COMPONENTS



Cel-Fi QUATRA Range Extender A Power over Ethernet (PoE) device that extends the maximum distance between the

NU and the CU by 200



Cel-Fi MIMO Panel Antenna Connects to any Cel-Fi QUATRA MIMO-enabled NU or CU with QMA (quick connect) cables



Cel-Fi Mount

An indoor/outdoor mount designed to secure a donor signal antenna for Cel-Fi QUATRA and work with the Cel-Fi WAVE Antenna Positioning Application.

ADDITIONAL POWERTEC SOLUTION COMPONENTS



metres.

Blackhawk Omni MIMO Antenna ideal in areas with decent donor signal and multiple cell towers.





InStock Splitter available in 2/3/4 way splitters, with SMA or N-type connectors.

The Building Blocks

| B series | Dashboard | | | 81mm | |
|--|-----------|-----------------|-------------------|--------------|--|
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Cel-Fi WAVE Portal

- · Cel-Fi device and asset management
- Data modeling and reporting
- Mobile and computer applications
- Globally trusted carrier-grade security
- Users can access the Cel-Fi WAVE portal through the dashboard interface, or integrate it via APIs.

Scalable Configuration

Cel-Fi QUATRA can be installed off-air, using either a MIMO panel or omni donor antenna to provide highquality in-building wireless connectivity. Cel-Fi QUATRA can be deployed by installers or IT personnel with Cat5e skills (no RF engineering skills needed). Cel-Fi QUATRA is a scalable solution that utlisies one or multiple NUs, depending on the environment and size of the space, with up to four distributed CUs connected to each NU.

Network Safe

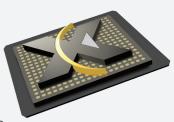


Self-organizing edge intelligence ensures that Cel-Fi QUATRA does not interfere with other indoor wireless products such as Wi-Fi routers, Small Cells, and Distributed Antenna Systems (DAS). High speed Automatic Gain Con-

trol ensures that Cel-Fi QUATRA is unconditionally network safe, and enables more simultaneous calls and higher data speeds.

IntelliBoost[™] Chipset

The Nextivity IntelliBoost" baseband processor is the first six-core processor designed specifically to optimise the indoor transmission



and reception of 3G and 4G/LTE wireless signals. With advanced filtering, equalisation and echo-cancellation techniques, Nextivity has developed an architecture which delivers unprecedented in-building data rates and pervasive 3G and 4G/LTE connectivity. The IntelliBoost processor ensures that Cel-Fi products never negatively impact the macro network while providing maximum coverage.