

CEL-FI[™] QUATRA 4000

QUATRA 4000 MODEL NUMBER

NU: Q44-1234CNU

CU: Q41-5ECU

QUATRA 4000i MODEL NUMBER

NU: I44-1234CNU

CU: I44-5ECU

3G / 4G / 5G

In-building Cellular Solution

Cel-Fi QUATRA 4000 is an Active DAS Hybrid that solves the problem of indoor cellular coverage. Cel-Fi QUATRA 4000 delivers a cellular signal that is up to 1000x stronger, utilizing CAT 5e cabling for RF and Power over Ethernet. Cel-Fi QUATRA 4000 can be installed in just days, and at a price point that meets the middleprise budget. Cel-Fi QUATRA 4000 is carrier-grade, carrier-approved, and guaranteed network safe.

Benefits:

- Scalable All-Digital PoE Cat5e Active DAS Hybrid for Middleprise
- Up to 100 dB (1000x Stronger Signal)
- Four Operator Solution
- 3G / 4G / 5G for Voice and Data
- Coverage Unit Ethernet cable lengths up to 300m
- Independent Donor antenna or Small Cell input per operator
- Supports Cel-Fi WAVE Portal Cloud Management
- Carrier-Approved and Unconditionally Network Safe
- FCC Part 20 and Part 90 variants available



Network Unit

Coverage Unit



**CEL-FI QUATRA 4000/4000i
Network Unit**
Q44-1234CNU/ i44-1234CNU



**CEL-FI QUATRA 4000/4000i
Coverage Unit**
Q41-5ECU/i41-5ECU



**CEL-FI QUATRA 4000 Fiber Hub
Network Unit**
Q40-1234CNU




**CEL-FI QUATRA 4000
Range Extender**
Q40-OE

QUATRA 4000/4000i			
OPERATOR'S CONFIGURATIONS	OPERATORS SUPPORTED	AT&T, Sprint, Verizon, T-Mobile	Band Combinations Available <i>*QUATRA 4000i-only</i>
RELAY CONFIGURATIONS (one configuration per operator)	OPERATOR 1	Verizon Bands	13 & 25
			13 & 4
			13 & 2
	OPERATOR 2	AT&T Bands	12 & 5
			12 & 25
			12 & 4
			12 & 2
			(30 & 5)*
			(30 & 25)*
	OPERATOR 3	Sprint Bands	(30 & 4)*
			(30 & 2)*
			25
	OPERATOR 4	T-Mobile Bands	(26 & 25)*
			(41 & 26)*
			(41 & 25)*
			25 & 4
			25 & 12
			4 & 12
			2 & 4
			2 & 12
			(2 & 71)*
TRANSMIT EVM	UL	8.5%	16-QAM with full RB allocation
		8.5%	E-TM3.1
REGULATORY CERTIFICATIONS		Part 15	Yes
		Part 20 (QUATRA 4000)	Yes
		Part 90 (QUATRA 4000i)	Yes
		Part 22	Yes
		Part 24	Yes
		Part 27	Yes


**These specs are applicable only for the QUATRA 4000i*

NETWORK UNIT


ANTENNAS



**LPDA-R
High-Gain Directional
Antenna**
A62-V44-200



**Indoor Low-Profile
Antenna**
A11-V43-201



Blade Antenna
A21-V44-600

	OPERATORS	BANDS	FDD	Band Combinations Available <i>*QUATRA 4000i-only</i>
RADIO SPECS	VERIZON	BAND 2	Downlink (DL) Frequency (MHz)	1930–1990
			Uplink (UL) Frequency (MHz)	1850 - 1910
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 4	Downlink (DL) Frequency (MHz)	2110–2155
			Uplink (UL) Frequency (MHz)	1710 - 1755
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
		BAND 13	System Gain (Max)(dB)	100
			Downlink (DL) Frequency (MHz)	746–756
			Uplink (UL) Frequency (MHz)	777–787
			Relay Bandwidth (Max)(MHz)	10
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
		BAND 25	DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	95
			Downlink (DL) Frequency (MHz)	1930–1995
			Uplink (UL) Frequency (MHz)	1850–1915
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
RADIO SPECS	AT&T	BAND 2	Downlink (DL) Frequency (MHz)	1930–1990
			Uplink (UL) Frequency (MHz)	1850 - 1910
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 4	Downlink (DL) Frequency (MHz)	2110–2155
			Uplink (UL) Frequency (MHz)	1710–1755
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
		BAND 5	System Gain (Max)(dB)	100
			Downlink (DL) Frequency (MHz)	869–894
			Uplink (UL) Frequency (MHz)	824–849
			Relay Bandwidth (Max)(MHz)	15
			UL Output Power (at port)(dBm)	20
			DL Min Input Level (dBm RSRP)	-120
		BAND 12	DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	95
			Downlink (DL) Frequency (MHz)	728–746
			Uplink (UL) Frequency (MHz)	698–716
			Relay Bandwidth (Max)(MHz)	10
			UL Output Power (at port)(dBm)	22
		BAND 25	DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	95
			Downlink (DL) Frequency (MHz)	1930–1995
			Uplink (UL) Frequency (MHz)	1850–1915
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100

RADIO SPECS (continued)	AT&T (continued)	BAND 30* (4000i-only)	Downlink (DL) Frequency (MHz)	2350–2360
			Uplink (UL) Frequency (MHz)	2305–2315
			Relay Bandwidth (Max)(MHz)	10
			UL Output Power (at port)(dBm)	19
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
	SPRINT	BAND 2	Downlink (DL) Frequency (MHz)	1930–1990
			Uplink (UL) Frequency (MHz)	1850 - 1910
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 25	Downlink (DL) Frequency (MHz)	1930–1995
			Uplink (UL) Frequency (MHz)	1850–1915
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 26* (4000i-only)	Downlink (DL) Frequency (MHz)	859–894
			Uplink (UL) Frequency (MHz)	814–849
			Relay Bandwidth (Max)(MHz)	15
			UL Output Power (at port)(dBm)	20
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	95
		BAND 41* (4000i-only)	Downlink (DL) Frequency (MHz)	2496–2690
			Uplink (UL) Frequency (MHz)	2496–2690
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
	T-MOBILE	BAND 2	Downlink (DL) Frequency (MHz)	1930–1990
			Uplink (UL) Frequency (MHz)	1850 - 1910
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 4	Downlink (DL) Frequency (MHz)	2110–2155
			Uplink (UL) Frequency (MHz)	1710–1755
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 12	Downlink (DL) Frequency (MHz)	728–746
			Uplink (UL) Frequency (MHz)	698–716
			Relay Bandwidth (Max)(MHz)	10
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	95

RADIO SPECS (continued)	T-MOBILE (continued)	BAND 25	Downlink (DL) Frequency (MHz)	1930–1995
			Uplink (UL) Frequency (MHz)	1850–1915
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	100
		BAND 71* (4000i-only)	Downlink (DL) Frequency (MHz)	617–652
			Uplink (UL) Frequency (MHz)	663–698
			Relay Bandwidth (Max)(MHz)	20
			UL Output Power (at port)(dBm)	22
			DL Min Input Level (dBm RSRP)	-120
			DL Max Input Level (dBm RSSI)	-40
			System Gain (Max)(dB)	95
RETURN LOSS (DB)			At all ports	-8
DONOR ANTENNAS			One RF Port per Operator	
			Operators Supported (Max)	4
			Impedance (Ohms)	50
POWER	NU Internal Supply		Voltage (VAC)	100–240
			Power - Typical (W)	230
			Power - Max (W)	321.3
SUPPORTED CUs	Coverage Units		Number Supported (Max)	6
			Category Cables per CU	2
			Interface Type	RJ45
USER INTERFACE	Power / Status	LED	RED / GREEN	
	CU Link	LED	GREEN	
	Donor Antenna	LED	GREEN	
	Cellular Modem	LED	RED / GREEN	
	Ethernet	LED	Yes	
MECHANICAL	USB	n/a	Yes	
	Dimensions	L×W×H (mm)	330×272×85	
		Weight (kg)	6.5	
	RF Port Connector		N-type (Female)	
	Mounting	Wall	Yes	
	Cooling	Convection	Yes	
	Power / Status	AC to NU	Yes	
ENVIRONMENTAL	Power	On/Off Switch	Yes	
	Maximum Surface Temperature (°C)	Measured at 30°C Ambient	44	

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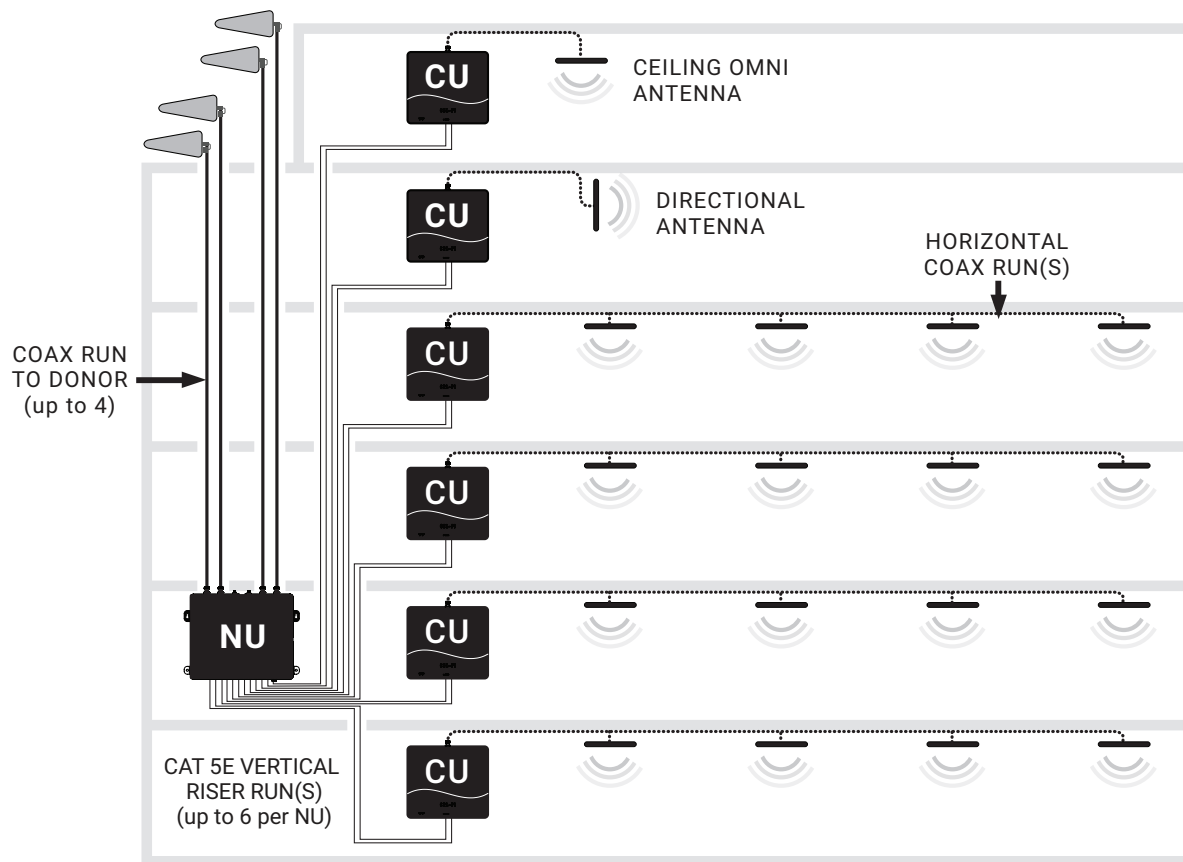
COVERAGE UNIT			
RADIO SPECS	Frequency	Downlink (DL) Frequency (MHz)	617–2690
		Uplink (UL) Frequency (MHz)	663–2690
	DL Power (dBm)	Per Channel (Max)	16
NETWORK UNIT INTERFACE	Cables (2)	Type	Ethernet
		Length Cat5e Max (m)	100 (200 with QRE)
		Length Cat6 23 AWG Max (m)	150 (300 with QRE)
USER INTERFACE	Power / Status	LED	RED / GREEN
	NU Link	LED	GREEN
MECHANICAL	Dimensions	L×W×H (mm)	287×255×57
		Weight (kg)	3.9
	Mounting	Ceiling, Wall	Yes

STANDARDS			
ENVIRONMENTAL	FCC	QUATRA 4000: Part 15, 22, 24, 27, 20 QUATRA 4000i: Part 15, 22, 24, 27, 90	Yes
	UL		Yes
	3GPP Repeater Specs		Yes
	Operating Temperature	Ambient	0–40°C
	Relative Humidity	Non-Condensing	0–95%
	Ingress Protection (IP)		40

NOTE: Specifications subject to change.

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6 STORY BUILDING: 1 NU to 6 CU's



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