

CEL-FI™

QUATRA 4000e

5G/4G/3G

In-Building Cellular Solution

DATA SHEET

MODEL NUMBERS:
 NU: Q44-E999CNU
 CU: Q41-EECU

Solving cellular coverage challenges for enterprise environments, Cel-Fi QUATRA 4000e is a multi-carrier hybrid active DAS that offers uniform, high-quality cellular signal throughout any building. As an all-digital solution, QUATRA 4000e utilizes Cat5e cabling for RF and Power-over-Ethernet architecture to deliver industry-leading signal gain and scalability. In addition to unmatched performance, this cost-effective, carrier-grade system offers fiber expansion capabilities and can be installed within days. QUATRA 4000e is also carrier approved and guaranteed network safe.



Key Features

- Scalable All-Digital PoE Cat5e Active DAS Hybrid for Enterprise
- Up to 100 dB (1000x Stronger Signal)
- Multi-Operator Solution
- 5G/4G/3G for Voice and Data
- Coverage Unit Ethernet Cable Lengths up to 300 meters
- Independent Donor Antenna or Small Cell Input per Operator
- Supports Cel-Fi WAVE Portal Cloud Management
- Carrier Approved and Unconditionally Network Safe



CEL-FI QUATRA 4000e
 Network Unit
 Q44-E999CNU



CEL-FI QUATRA 4000e
 Coverage Unit
 Q41-EECU



CEL-FI QUATRA 4000
 RANGE EXTENDER
 Q40-OE

QUATRA 4000e BANDS			
BANDS	DOWNLINK MHz	UPLINK MHz	TECHNOLOGY/BANDWIDTH
1	2110-2170	1920-1980	LTE / 20MHz
3	1805-1880	1710-1785	LTE / 20MHz
7	2620-2690	2500-2570	LTE / 20MHz
8	925-960	880-915	LTE / HSPA / 15MHz
20	791-821	832-862	LTE / 10MHz
40	2300-2390	2300-2390	TDD LTE / 20MHz

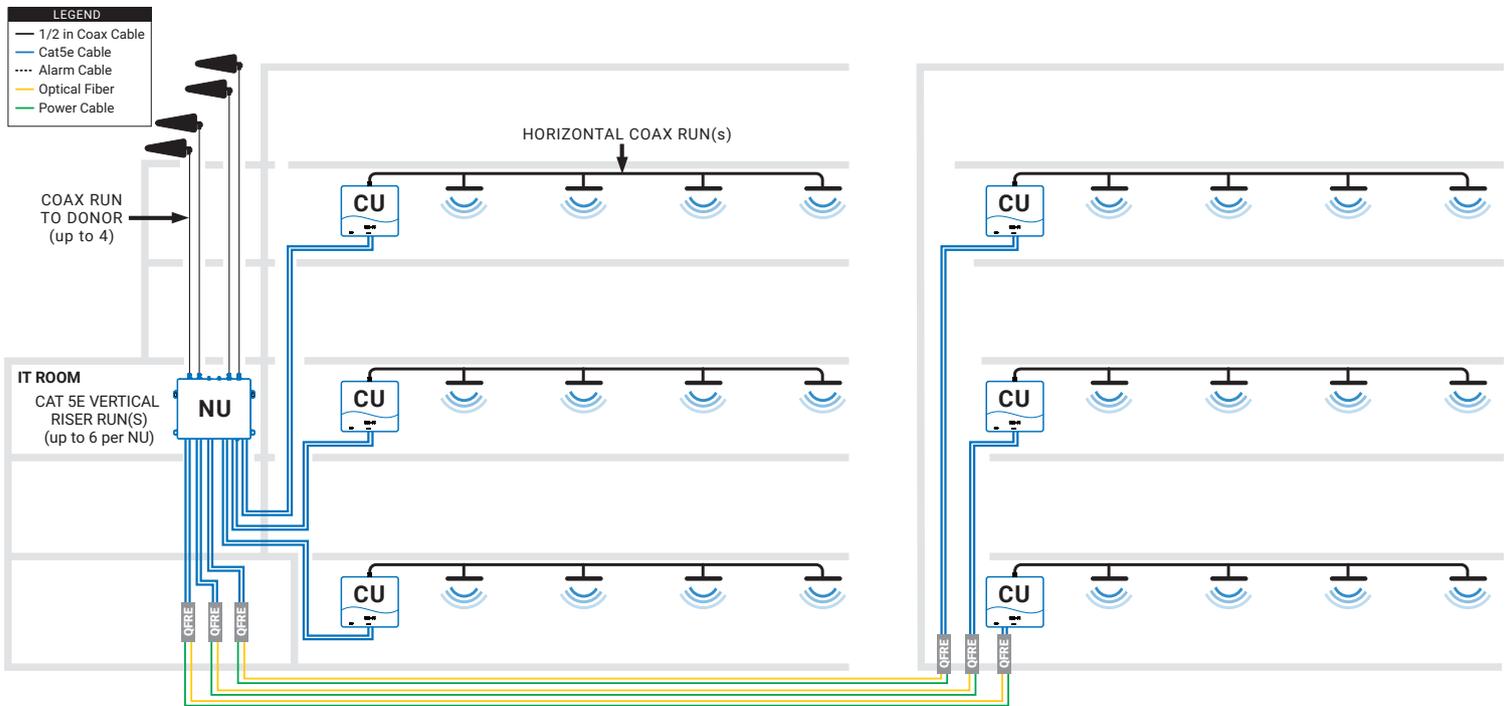
QUATRA 4000e			
TRANSMIT EVM	UL	8.5%	16-QAM with full RB allocation
RETURN LOSS (DB)		8.5%	E-TM3.1
		At all ports	-8
DONOR ANTENNAS		One RF Port per Operator	
		Operators Supported (Max)	4
		Impedance (Ohms)	50
POWER	NU Internal Supply	Voltage (VAC)	100-240
		Power - Typical (W)	230
		Power - Max (W)	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
	USB	n/a	Yes
MECHANICAL	Dimensions	L x W x H (mm)	330 x 272 x 85
		Weight (kg)	6.5
	RF Port Connector		4.3 / 10
	Mounting	Wall	Yes
	Cooling	Convection	Yes
	Power / Status	AC to NU	Yes
	Power	On/Off Switch	Yes
ENVIRONMENTAL	Maximum Surface Temperature (°C)	Measured at 30°C Ambient	44

COVERAGE UNIT			
RADIO SPECS	Frequency	Downlink (DL) Frequency (MHz)	791-2690
		Uplink (UL) Frequency (MHz)	832-2690
	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	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.

TWO-BUILDING DIAGRAM: 1 NU to 6 CUs with QUATRA Fiber Range Extenders



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