

CEL-FI QUATRA 4000c Fiber Hub

In-Building Cellular Coverage Expansion Solution

MODEL NUMBERS: Q40-1234FNU

The CEL-FI QUATRA 4000c Fiber Hub is a coverage expansion solution for the market's first neutral host active DAS hybrid with the convergence of private networking: CEL-FI QUATRA 4000c. The QUATRA 4000c Fiber Hub enables enterprises to expand their multi-operator coverage area, enabling a single CEL-FI QUATRA 4000c Network Unit (NU) to support up to six additional Coverage Units (CU) for a total of up to 12. The QUATRA 4000c Fiber Hub can be installed up to 2.0 km (1.24 M) away from the NU to cover a larger space or adjacent building while maintaining the same signal quality throughout the system.



Features and benefits include:

- Fiber expansions scales all-digital active DAS hybrid CEL-FI QUATRA 4000c for enterprise environments
- Ideal for easily increasing CEL-FI QUATRA 4000c coverage area with minimal infrastructure and costs
- Multi-carrier fiber expansion solution for 4G, 5G, and private networking with an industry-leading signal gain of up to 100 dB
- Lossless RF signal and Power-over-Ethernet (PoE) distribution with easy-to-install category cable architecture
- Remotely monitor and configure with Nextivity WAVE Portal without requiring separate LAN connectivity
- FCC certified

Specifications

Network Unit Compatibility	CEL-FI QUATRA 4000c Network Unit (Q44-1M34CNU & I44-1M34CNU) CEL-FI QUATRA 4000 Network Unit (Q44-1234CNU & I44-1234CNU)
Coverage Unit Compatibility	CEL-FI QUATRA 4000c Coverage Unit (Q41-RECU & I41-RECU) CEL-FI QUATRA 4000 Coverage Unit (Q41-5ECU & I41-5ECU)
# of Relay Bands	6 max. Source NU Port 4 unlock Industrial upgrade allows total 7
Independent Operators Supported	3 max.
Fiber Hub to CU Cable	2x Category Cables ANSI/TIA/EIA 568-B Compliant
Fiber Hub to CU Cable Distance	328 ft (100 m) (656 ft (200 m) with CEL-FI QUATRA Range Extender) max.
Product Settings & SW Updates	WAVE Portal for Desktop WAVE Field Tool for Windows

Interface

Power Port	IEC C14
Power Control	ON/OFF Switch
Status LED (Power)	Bi-Color Green/Red
Status LED (6x CU Link/SFP+)	Green
CU Interface	2x RJ45 per CU
NU Interface	SFP+ (not included)
# of CU max	6
Monitoring & Management	WAVE Portal via NU
Factory Debug & WAVE Field Tool	USB 2.0 Micro-B

Compliance

FCC	Part 15
UL	Yes
ISED	Yes

Input Voltage	100-240 V
Input Current	3.5 A
Power Consumption	321.3 W max.
Power Cable	Type B (US) to IEC C13
Power Supply Cable	18 AWG
Power Supply Cable Length	6 ft (1.8 m)
Coverage Unit Power	PoE+ per IEEE 802.3at

Operating Temperature	32 to 104 °F (0 to 40 °C)
Storage Temperature	-31 to 158 °F (-35 to 70 °C)
Heat Dissipation	Passive Convection
Surface Temperature	111°F (44 °C) max. at ambient
Non-condensing Humidity	0 to 95%
Ingress Protection Rating	IPX0

Main Unit Dimensions (in (mm))	14.5 x 11.6 x 3.7 (368.2 x 295.8 x 95.2)
Main Unit Weight (lbs (kg))	15.0 (6.8)
Mounting	Wall

M/N	Q40-1234FNU
Region	AMER
Box Contents	QUATRA 4000c Fiber Hub
	1x AC Power Cable
	4x Mounting Screws
	4x Drywall Anchors
Shipping Dimensions (in (mm))	20.35 x 14.69 x 5.39 (517 x 373 x 137)
Shipping Weight (lbs (kg))	17.64 (8.0)

Technical drawings of the CEL-F1 chassis showing front, side, and rear views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Width: [14.5 in] 368.2 mm
- Overall Height: [13.7 in] 348.1 mm
- Top Panel Height: [2.6 in] 65.1 mm
- Front Panel Height: [0.5 in] 11.5 mm
- Front Panel Width: [7.0 in] 178.3 mm
- Front Panel Depth: [6.7 in] 169.8 mm
- Front Panel Thickness: Ø 7.0 mm [0.3 in] THRU
- 8x Status LEDs

Side View Dimensions:

- Overall Depth: [3.7 in] 95.2 mm
- Overall Width: [3.4 in] 86.2 mm

Rear View Dimensions:

- Power Control: [1.3 in] 32.8 mm
- AC Input: [1.3 in] 32.1 mm
- Fiber Hub Expansion SFP+ cage: [1.1 in] 28.6 mm
- 12x RJ45 for CU1 to CU6

Reference Configuration

