# CEL-FI QUATRA EVO Fiber Hub

## In-Building Cellular Coverage Expansion Solution

**MODEL NUMBER: Q40-Z1FNU**

The CEL-FI QUATRA EVO Fiber Hub is a coverage expansion solution for the CEL-FI QUATRA EVO active DAS hybrid. The QUATRA EVO Fiber Hub enables enterprises to expand the coverage area for one or two mobile network operator (MNO) signals by enabling a single CEL-FI QUATRA EVO Network Unit (NU) to support up to six additional Coverage Units (CU) for a total of up to 12. The QUATRA EVO Fiber Hub can be installed 1.24 miles (2.0 km) 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 expansion scales all-digital active DAS hybrid CEL-FI QUATRA EVO for enterprise environments
- Ideal for easily increasing CEL-FI QUATRA EVO coverage area with minimal infrastructure and costs
- Single- or Dual-Operator fiber expansion solution for 4G and 5G with 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 EVO Network Unit (Q42-Z1CNU)<br>CEL-FI QUATRA EVO FN Network Unit (I42-36CNU) |
| Coverage Unit Compatibility | CEL-FI QUATRA EVO Coverage Unit (Q41-BXCU)<br>CEL-FI QUATRA EVO FN Coverage Unit (I41-WXCU) |
| # of Relay Bands | 4 max. |
| Independent Operators Supported | 2 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) or 656 ft (200 m) with CEL-FI QUATRA Range Extender) max. |
| Product Settings & SW Updates | WAVE Portal for Desktop<br>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 |

## Power

| | |
|---|---|
| Input Voltage | 100-240 V |
| Input Current | 3.5 A |
| Power Consumption | 321.3 W max. |
| Power Interface | 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 |

## Environmental

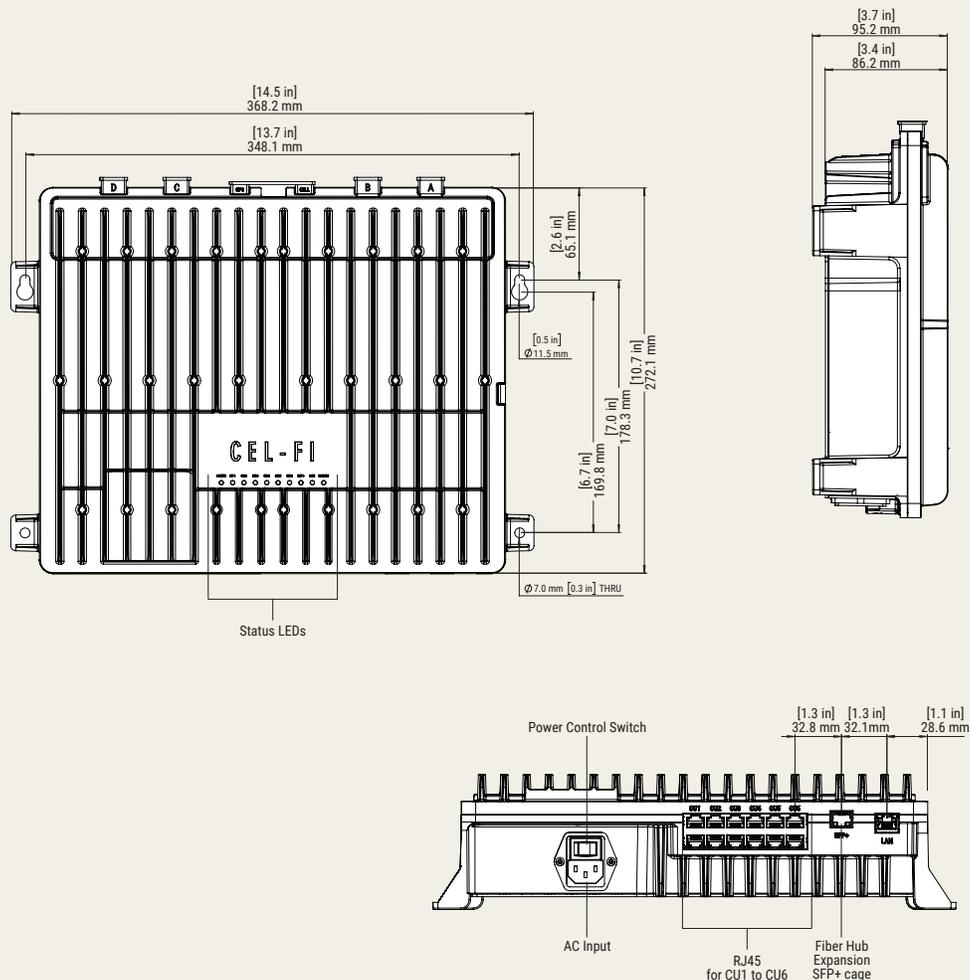| | |
|---|---|
| Operating Temperature | 32 to 104 °F (0 to 40 °C) |
| Storage Temperature | -31 to 158 °F (-35 to 70 °C) |
| Heat Dissipation | Passive Convection |
| Surface Temperature | 111°F (44 °C) max. at ambient |
| Non-condensing Humidity | 0 to 95% |
| Ingress Protection Rating | IPX0 |

## Mechanical

| | |
|---|---|
| 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 |

## Ordering Information

| M/N | Q40-Z1FNU |
|---|---|
| Region | AMER |
| Box Contents | CEL-FI QUATRA EVO 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) |
| Harmonized Tariff Schedule (HTS) | 8517.18.00.50 |
| Export Control Classification Number (ECCN) | EAR99 |

Note: Product specifications are subject to change without prior notification.

## CEL-FI QUATRA EVO Fiber Hub Outline

# Reference Configuration



DONOR
ANTENNAS

CEILING OMNI
ANTENNA

DIRECTIONAL
ANTENNA

HORIZONTAL
COAX RUN(S)

COAX RUN
TO DONOR

CATEGORY
CABLE

QFRE

QRE

CU

NU

HUB

FIBER