

CEL-FI™

QUATRA 4000 Fiber Hub

In-Building Enterprise Cellular System



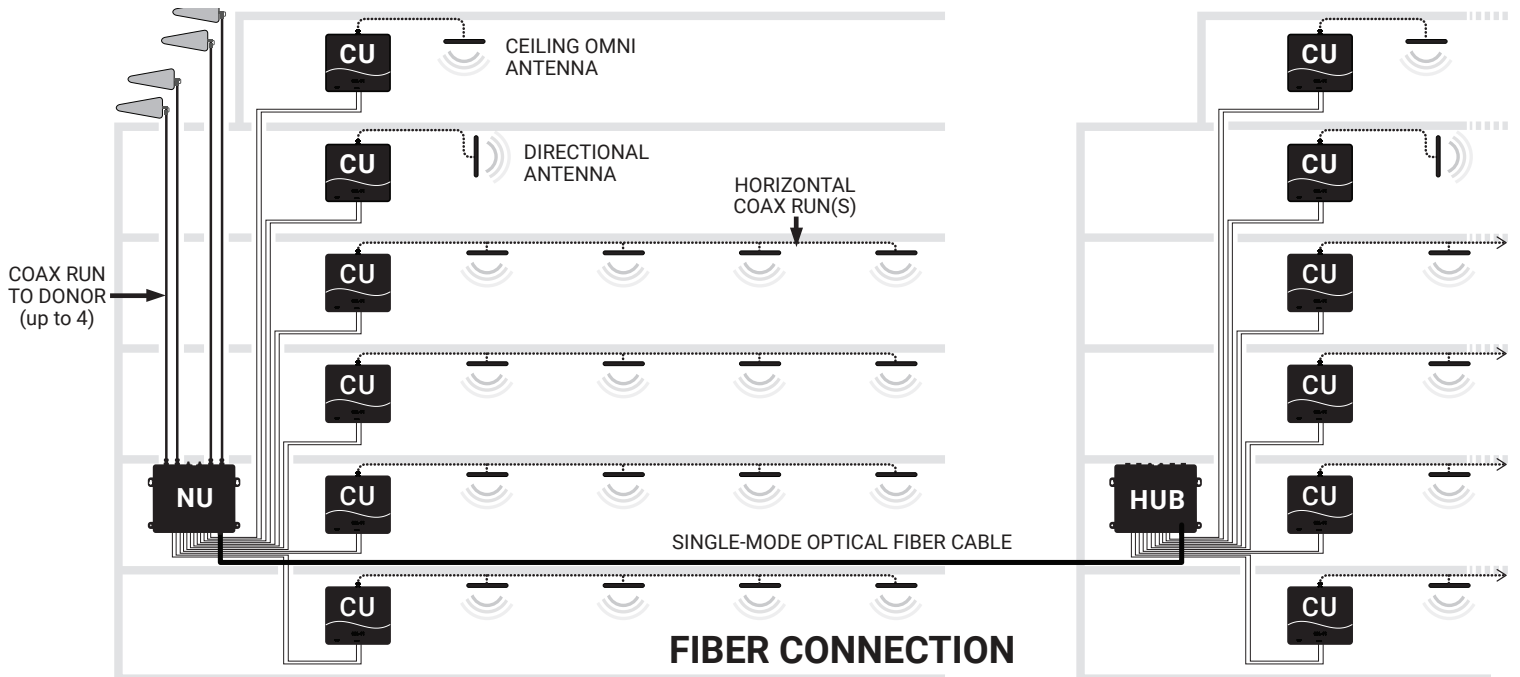
Leveraging Fiber Connectivity for Enterprise



Performance Leadership Ease of Install Leaders in Value Fastest Project Timeline Carrier Grade Approved

The Cel-Fi QUATRA 4000 Fiber Hub (fHub) expands the Network Unit capacity in QUATRA 4000 deployments from six to up to 12 Coverage Units. The fHub can be installed 2 km (1.2 miles) away from the NU to cover large spaces while maintaining the same signal quality throughout the system.

Industry-Leading Performance for Tall Structures, Campuses, and Multi-Building Installations



- Multi-carrier Active DAS Hybrid
- Donor Source Over Fiber
- FCC Certified
- SFP+ Module (not included)



The award-winning, carrier-grade solution.

A Fiber Expansion Unit for Cel-Fi QUATRA 4000

The fHub supports up to six Cel-Fi QUATRA 4000 Coverage Units (CUs). The Cel-Fi QUATRA 4000 Network Unit (NU) passes through the donor signal to the fHub via single or multi-mode fiber connection, supporting one NU to one fHub. The Cel-Fi QUATRA 4000 NU must be activated for Fiber via software. The SFP+ port on the NU connects to an aftermarket hot-pluggable SFP+ transceiver. The NU supports up to six CUs. Connected to the fHub, the NU can support an additional six CUs.



**Cel-Fi QUATRA 4000
Fiber Hub**
(Q40-1234FNU)

Hardware:



**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
Range Extender**
(Q40-OE)

| | PRODUCT | BANDS | MODEL NUMBERS |
|--------------------|------------------------------|----------------------------|---------------|
| INTEGRATION MODELS | Cel-Fi QUATRA 4000, PART 20 | 2/4/5/12/13/25/71 | Q44-1234-CNU |
| | Cel-Fi QUATRA 4000i, PART 90 | 2/4/5/12/13/25/26/30/41/71 | i44-1234CNU |

| SPECIFICATIONS | | | |
|-----------------------|-----------------------------|--------------------------------|--------------------------------|
| HUB SUPPORT (OPTICAL) | SFP+ | Duplex LC Connector 1310 nm | |
| NU FIBER INTERFACE | Optical | 8.5% | 16-QAM with full RB allocation |
| | | 8.5% | E-TM3.1 |
| POWER | Hub Internal Supply | Voltage (VAC) | 100–240 |
| | | Power - Typical (W) | 200 |
| | | 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 (1-6) | LED | GREEN |
| | Cellular Modem | LED | OFF (See NU for Status) |
| | Ethernet | LED | OFF (See NU for Status) |
| MECHANICAL | Dimensions | L x W x H (mm) | 330 x 272 x 85 |
| | | Weight (kg) | 6.5 |
| | Mounting | Wall or Rack | Yes |
| | Cooling | Convection | Yes |
| | Power Supply | Internal with C13 Cord | Yes |
| ENVIRONMENTAL | Power Switch | On/Off Switch (Housing Mount) | Yes |
| | Maximum Surface Temperature | Measured at 30°C Ambient | 44°C |

Antennas:

Cel-Fi Blade Antenna
Included with Cel-Fi QUATRA 4000 CU
(A62-V44-200)



**Cel-Fi LPDA-R High-Gain
Directional Antenna**
(A62-V44-200)



Cel-Fi Low-Profile Antenna
(A11-H43-201)



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