

CEL-FI™

# QUATRA 4000 FIBER HUB

In-building Enterprise Cellular System



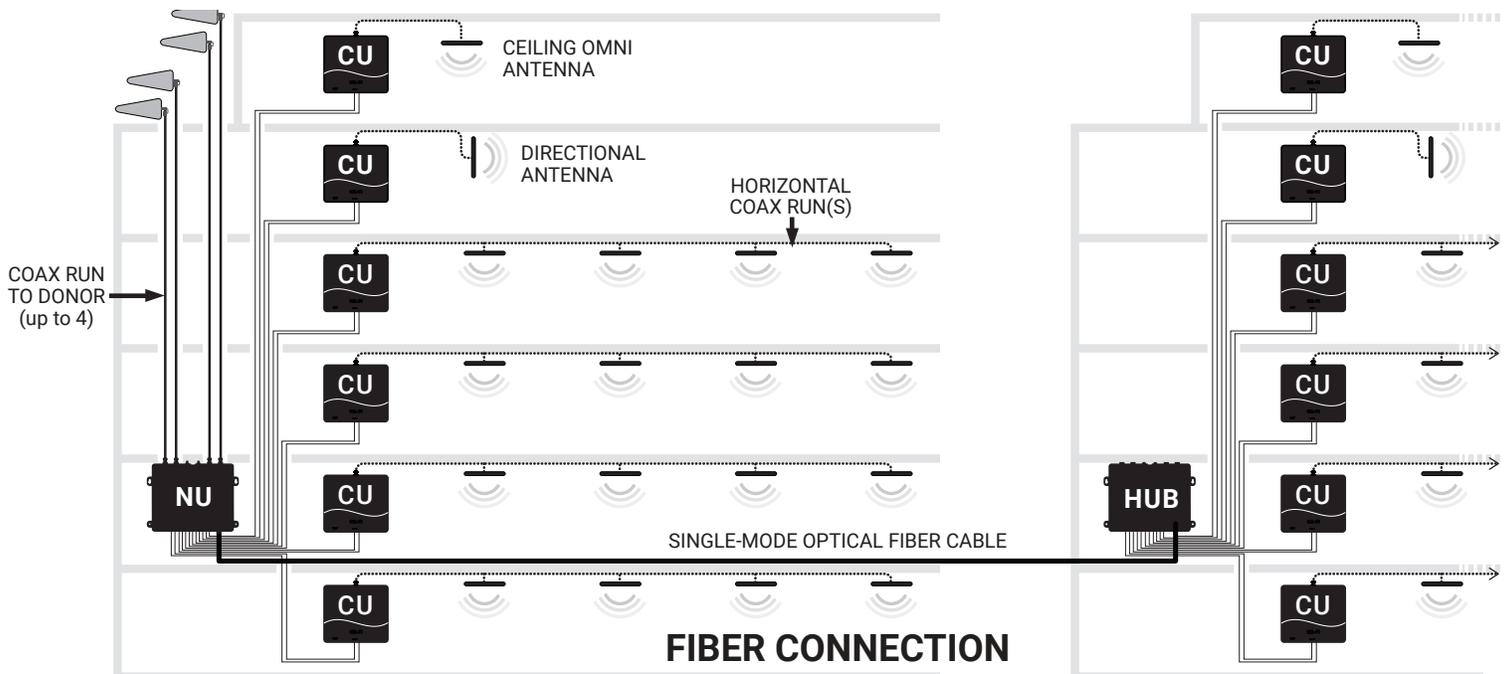
## Cel-Fi Leverages Fiber Connectivity for Enterprise



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

Cel-Fi QUATRA 4000 Fiber Hub (fHUB) expands the Network Unit capacity from six to up to twelve 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.

### Fiber connects NU and HUB, Leveraging the Donor Signal of Originating NU



- Multi-carrier Hybrid Active DAS
- 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 6 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-mode fiber connection, supporting 1 NU to 1 fHUB. The Cel-Fi QUATRA 4000 NU must be activated for Fiber via software, and connects using SFP+ port on the NU and using an aftermarket hot-pluggable SFP+ transceiver. The NU supports up to 6 CU's, connects to the fHUB, and then fHUB supports an additional 6 CU's.



**Cel-Fi QUATRA 4000 FIBER HUB Unit**  
(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
<b>INTEGRATION MODELS</b>	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			
<b>HUB SUPPORT (OPTICAL)</b>	SFP+	Duplex LC Connector	
		1310 nm	
<b>NU FIBER INTERFACE</b>	Optical	8.5%	16-QAM with full RB allocation
		8.5%	E-TM3.1
<b>POWER</b>	HUB Internal Supply	Voltage (VAC)	100–240
		Power - Typical (W)	200
		Power - Max (W)	321.3
<b>SUPPORTED CUS</b>	Coverage Units	Number Supported (Max)	6
		Category Cables per CU	2
		Interface Type	RJ45
<b>USER INTERFACE</b>	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)
<b>MECHANICAL</b>	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
<b>ENVIRONMENTAL</b>	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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