

# CEL-FI QUATRA RED

# Fiber Range Extender

**ERCES Solution**

## DATASHEET

MODEL NUMBER:  
F40-0XNU (NU Side)  
F40-0XCX (CU Side)

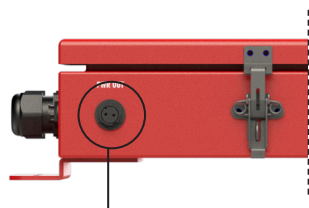
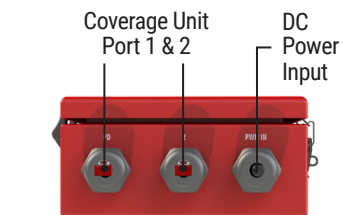


Cel-Fi QUATRA RED  
Fiber Range Extender (FRE)  
(SFP+ module is not included)

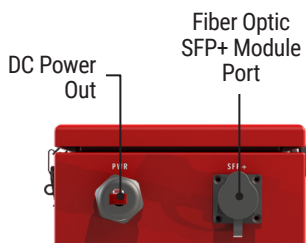
Ideal for campuses, multi-building facilities, and high-rises, the Cel-Fi QUATRA RED Fiber Range Extenders (FRE) increase the distance between the Network Unit (NU) and Coverage Unit (CU) up to .87 mile in Cel-Fi QUATRA RED ERCES Public Safety DAS systems. In addition to supporting copper cable to power up CUs remotely, the FREs work in pairs—one NU side and one CU side—with each pair supporting up to two CUs (see system architecture diagram below). The FREs are sold separately.

## Key Features

- Adds Fiber Capabilities to Cel-Fi QUATRA RED ERCES Integrated Public Safety DAS Installations
- Extends Distance Between NU and CU up to .87 mile
- Flexibility to Implement QUATRA RED in Large Structures, including Campuses, Multi-Building Facilities, and High-Rises
- Hybrid Cable Configuration Compatible (Fiber Optic + Copper)
- Kit Includes 2 FREs (1 NU Side/1 CU Side)



DC Power Out  
(Daisy Chain)  
(Network Unit Side Only)



(SFP+ module is not included)

POWER-FIBER ONLY MODE		
NU Side	Input port	RJ-45, PoE supply from NU
CU Side	Input port (VDC)(Min/Max)	44 / 55
	Output port (VDC)(Min/Max)	

POWER-HYBRID COPPER/FIBER MODE		
NU Side	Input port	44 / 55
	Output port	
CU Side	Input port (VDC)(Min/Max)	
	Output port (VDC)(Min/Max)	

LEDS		
Status	RED ON at power up	=> System is starting
	Flashing GREEN @ 1s period	=> Establishing communication
	GREEN ON	=> Fiber link is established
RJ45 LEDs (per port)	LEDs are off	There is no connection
	YELLOW ON	Cable is connected
	YELLOW and GREEN ON	Data transmission OK

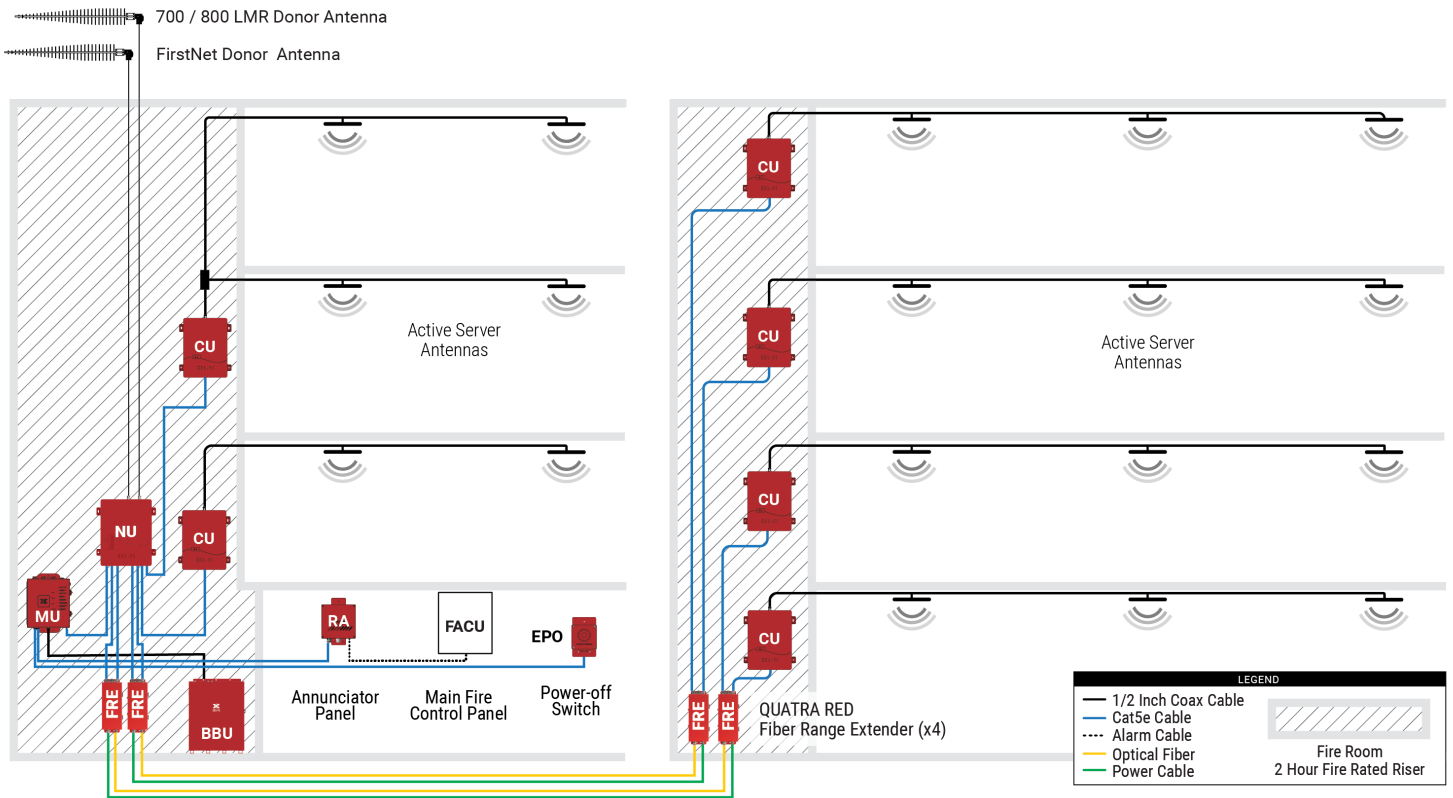
CONNECTIVITY		
RJ45		2x
Optical (SFP+ module)	10 Gb/s minimum	
	WIRELESS CPRI COMPLIANT (Recommended)	
	SMF or MMF	

ENVIRONMENTAL	
Ambient operating temperature (°C)	0 to 50
Relative humidity. Non-condensing	0 to 95
Product Ingress Protection (IP) ratings	NEMA 4

REGULATORY	
FCC	Part 15B, (Class A)
UL	2524

MECHANICAL DIMENSIONS	

# SYSTEM ARCHITECTURE



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