

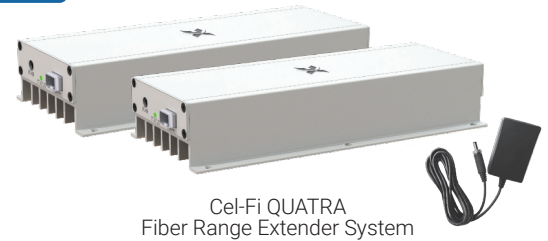
CEL-FI[™] QUATRA | Fiber Range Extender

In-Building Cellular Solution

DATA SHEET

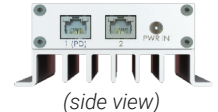
MODEL NUMBERS:
 Q34-0XNU (QUATRA 1000/2000 NU Side)
 Q34-0XCU (QUATRA 1000/2000 CU Side)
 Q40-0XNU (QUATRA 4000/4000i/4000e NU Side)
 Q40-0XCU (QUATRA 4000/4000i/4000e CU Side)

The QUATRA Fiber Range Extender (QFRE) increases the distance between the Network Unit and the Coverage Unit up to 2 kilometers. It also allows for the use of copper cable to power up Coverage Units remotely. It is compatible with QUATRA 1000, 2000 and 4000 products. Two QFREs are needed for each remote CU in the system (sold separately).



Key Features

- Extends NU to CU cable length up to 2 km
- Versatility allows to be use on different QUATRA system architectures
- Hybrid cable (FO + Copper) compatible



Works with the following Cel-Fi QUATRA products:



**Cel-Fi QUATRA
1000/1000 FN/2000**



**Cel-Fi QUATRA
4000/4000i/4000e**



**Cel-Fi QUATRA
4000 Range Extender**



**Cel-Fi QUATRA
Range Extender**

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)	

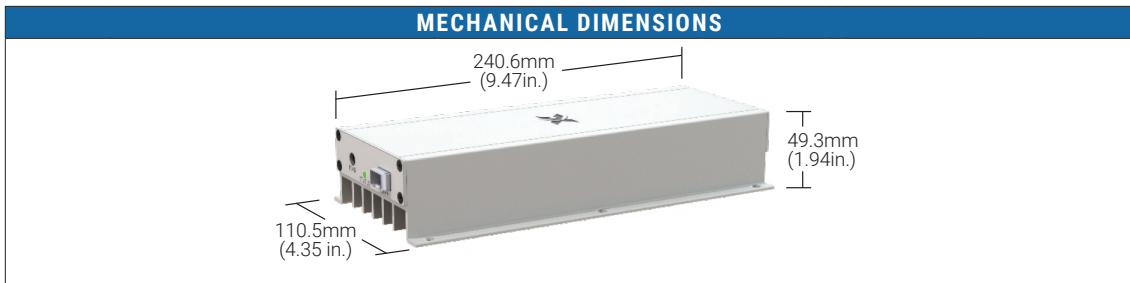
POWER-HYBRID COPPER/FIBER MODE		
NU Side	Input port	44 / 55
	Output port	
CU Side	Input port (VDC)(Min/Max)	44 / 55
	Output port (VDC)(Min/Max)	44 / 55

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	

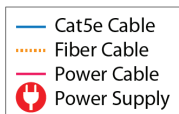
ENVIRONMENTAL		
Ambient operating temperature (°C)		0 to 50
Relative humidity. Non-condensing		0 to 95
Product Ingress Protection (IP) ratings		IP20

REGULATORY		
FCC	Part 15B, (Class A)	
UL	UL 62368-1 ETL Listing	
CE EMC	EN550xx (Class A)	
CE Safety	IEC 62368-1 CB	
CE ROHS	EU RoHS3	
CW REACH	EU/UK REACH	

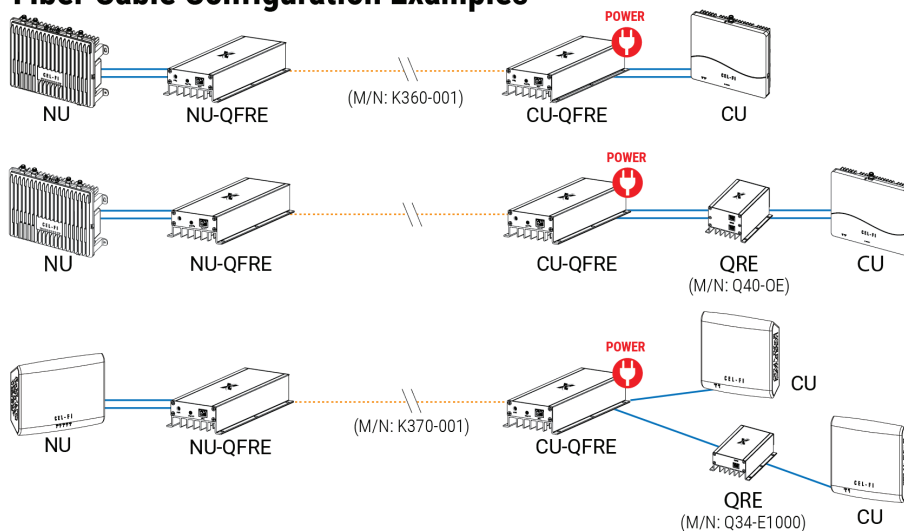


MAX DISTANCE PER PRODUCT / CONFIGURATION	Q4000 Q4000I	Q4000E	Q1000 Q2000
Number of CUs per QFRE	1	1	1 or 2
Supports ethernet QRE	Yes	Yes	Yes
QFRE Max Single Mode Fiber length (meters)	2,000	2,000	2,000
Max Hybrid Fiber length (AGW 12)(meters)	613 to 1,228	339 to 882	690 to 1,886
Max Cat5e cable length from QFRE to CU w/o Copper QRE (meters)	Up to 100	Up to 100	Up to 100
Max Cat5e cable length from QFRE to CU w/ Copper QRE (meters)	Up to 200	Up to 200	Up to 200
Compatible with Q4000 Hub	No	No	NA

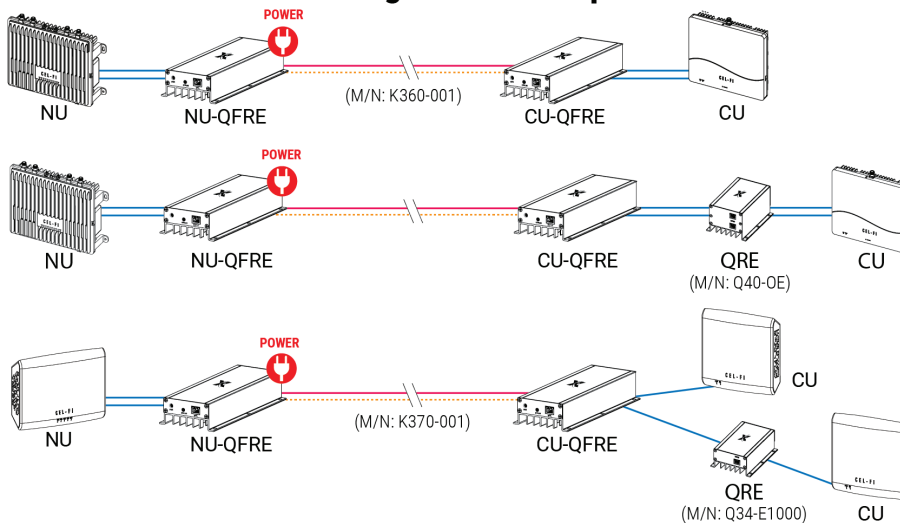
NOTE: Cable Length Max may be less for Fiber+PWR Cable (Based upon configuration power needs)



Fiber Cable Configuration Examples



Fiber & Power Cable Configuration Examples



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