

CEL-FI[™] QUATRA | Fiber Range Extender

In-Building Cellular Solution

DATA SHEET

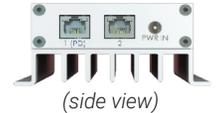
MODEL NUMBERS:
 Q34-0XNU (QUATRA 1000/2000 NU Side)
 Q34-0XCU (QUATRA 1000/2000 CU Side)
 Q40-0XNU (QUATRA 4000/4000i/4000e NU Side)
 Q40-0XCU (QUATRA 4000/4000i/4000e CU Side)

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) | |

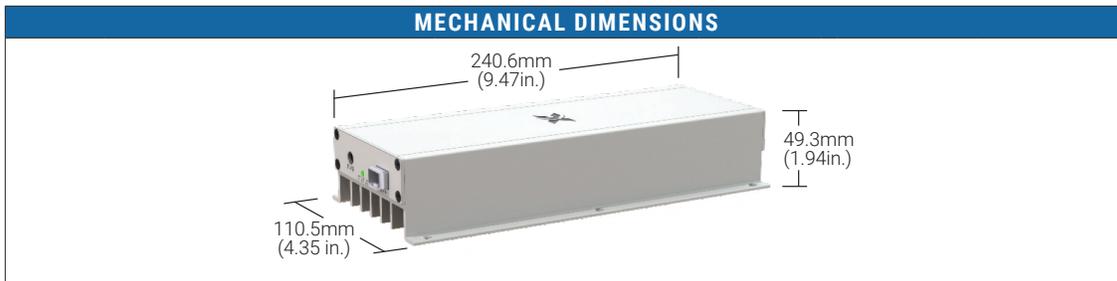
| POWER-HYBRID COPPER/FIBER MODE | | |
|--------------------------------|----------------------------|---------|
| NU Side | Input port | 44 / 55 |
| | Output port | |
| CU Side | Input port (VDC)(Min/Max) | 44 / 55 |
| | Output port (VDC)(Min/Max) | 44 / 55 |

| 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 | |

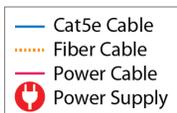
| ENVIRONMENTAL | | |
|---|--|---------|
| Ambient operating temperature (°C) | | 0 to 50 |
| Relative humidity. Non-condensing | | 0 to 95 |
| Product Ingress Protection (IP) ratings | | IP20 |

| 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 | |

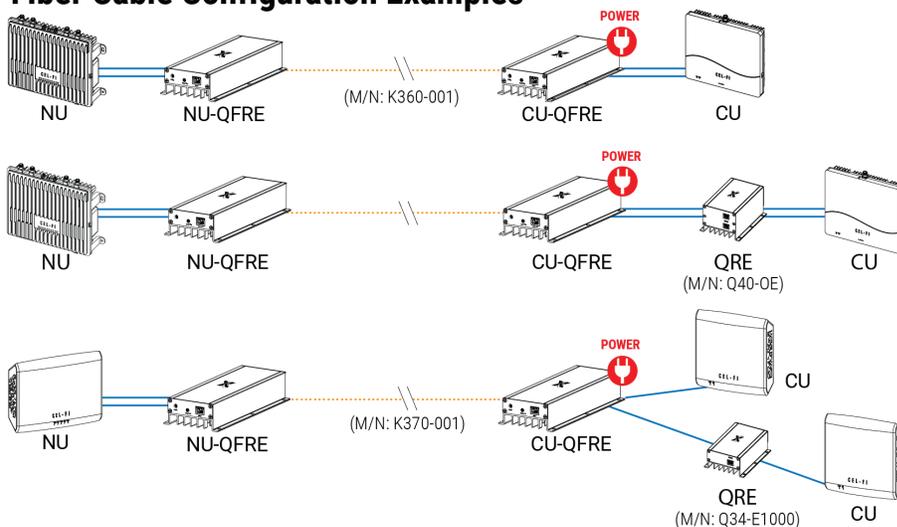


| MAX DISTANCE PER PRODUCT / CONFIGURATION | Q4000 Q4000I | Q4000E | Q1000 Q2000 |
|--|-----------------|------------|----------------|
| Number of CUs per QFRE | 1 | 1 | 1 or 2 |
| Supports ethernet QRE | Yes | Yes | Yes |
| QFRE Max Single Mode Fiber length (meters) | 2,000 | 2,000 | 2,000 |
| Max 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 |

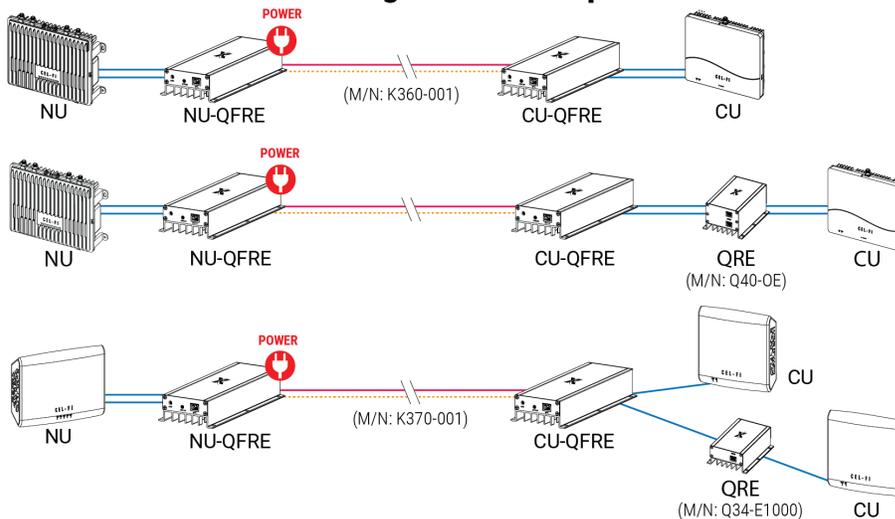
NOTE: Cable Length Max may be less for Fiber+PWR Cable (Based upon configuration power needs)



Fiber Cable Configuration Examples



Fiber & Power Cable Configuration Examples



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