



Cel-Fi QUATRA Fiber Range Extender

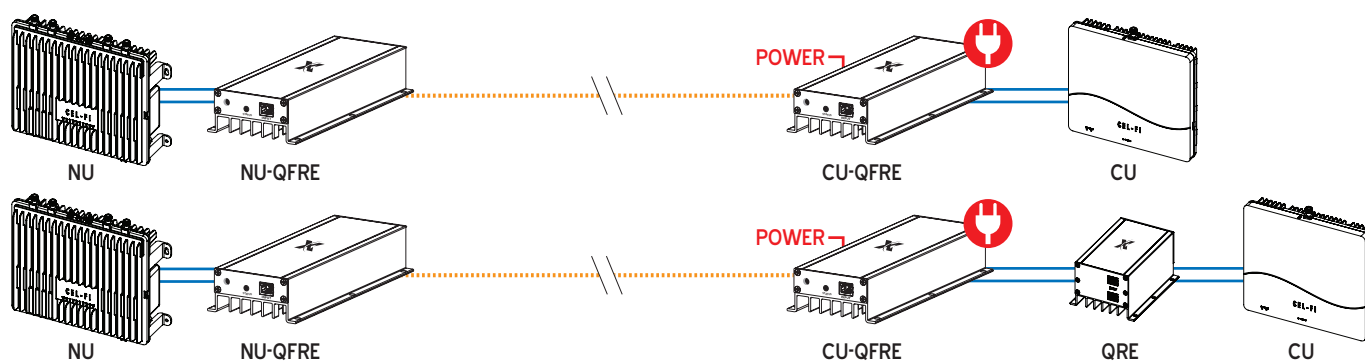


The QUATRA Fiber Range Extender increases the distance between the Network Unit and the Coverage Unit up to 2 kilometers. It also allows for the use of copper cable to power up Coverage Units remotely. It is compatible with QUATRA 1000, 2000 and 4000 products. Two QFREs are needed for each remote CU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

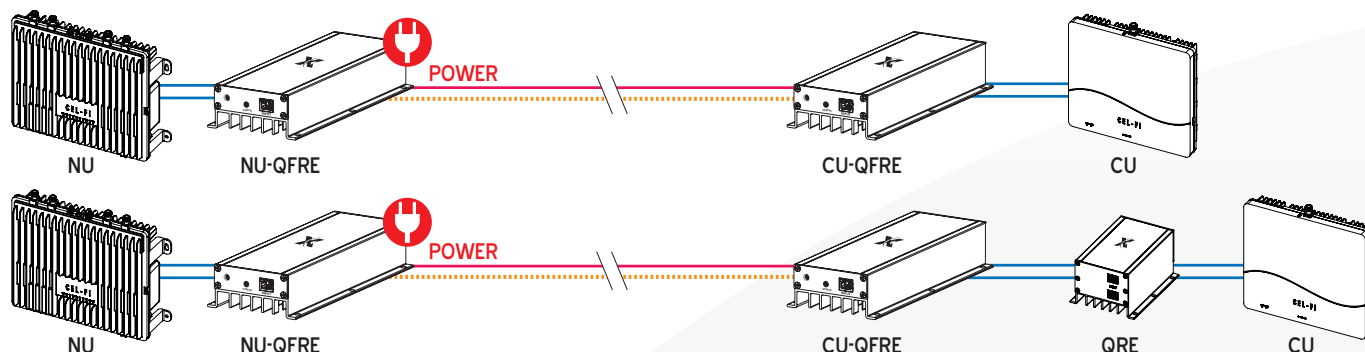
Features

- Fiber solution to outstretch the distance between NU and CU beyond 100 meters
- Versatility allows to be use on different QUATRA system architectures
- Hybrid cable (FO + Copper) compatible

Fiber Cable Configuration



Power Cable Configuration



— Cat5e Cable

..... Fiber Cable

— Power Cable



Power Source

Ordering Information

Model Number	Description
Q40-0XNU (NU side) / Q40-0XCU (CU side)	QUATRA 4000 Fiber Range Extender
Q34-0XNU (NU side) / Q34-0XCU (CU side)	QUATRA 1000/2000 Fiber Range Extender



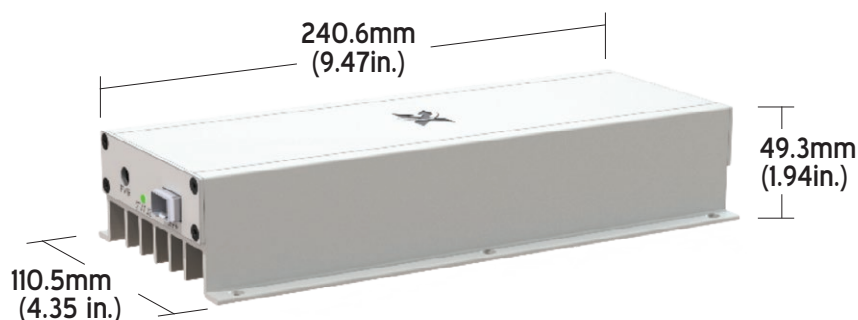
PRODUCT DATASHEET

Cel-Fi QUATRA Fiber Range Extender

Specifications

QRE DISTANCE	Fiber		1400 m
	Fiber/Copper		600 m
POWER-FIBER ONLY MODE	NU Side	Input port	RJ-45, PoE supply from NU
	CU Side	Input port (DC)(Min/Max)	44 / 55
		Output port (DC)(Min/Max)	
POWER-HYBRID COPPER/FIBER MODE	NU Side	Input port	44 / 55
	CU Side	Input port (DC)(Min/Max)	34 / 55
		Output port (DC)(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)		6.1 Gb/s minimum
			WIRELESS CPRI COMPLIANT
			LC CONNECTOR
			1310nm BAND
ENVIRONMENTAL	Ambient operating temperature (°C)		0 to 50
	Relative humidity (up to maximum ambient temp.) Non-condensing		0 to 95
	Product Ingress Protection (IP) rating - solid		IP20
REGULATORY	FCC		Part 15B, (Class A)
	UL		UL 62368-1 ETL Listing
	CE EMC		EN550xx (Class A)
	CE Safety		2x
	CE ROHS		EU RoHS3
	CW REACH		EU/UK REACH

Mechanical Dimensions



MAX DISTANCE PER PRODUCT / CONFIGURATION	Q4000 Q4000I	Q4000E	Q1000 Q2000
Number of CU per QFRE	1	1	1 or 2
Number of Copper QRE daisy chained after QFRE	1	1	1
QFRE Max Single Mode Fiber length (meters)	2,000	2,000	2,000
Max Hybrid Fiber length (AGW 12)(check use cases table) (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
HUB supported ?	Yes	Yes	No
HUB Max Single Mode Fiber length (meters)	2,000	2,000	N/A
QFRE supported on HUB	Yes	Yes	N/A
QFRE + Copper QRE supported on HUB	Yes	Yes	N/A

Why Rising Connection is using equipment designed and built by Nextivity?

- Designed and built for the most varied conditions in the world including Australian environment.
- Worldwide proven and respected Industry Experience including in the Australian Telecommunications Industry.
- Expertise support and customer focused staff.
- Up to date with technology and bringing to market the best quality technology available for Reliable Commercial use

This demonstrates to Rising Connection that you will have the Quality, Reliability and Product Support.