CEL-FI QUATRA RED FirstNet / LMR ERRCS Solution

Nextivity's Cel-Fi QUATRA RED is designed to provide consistent coverage in the most challenging building structures and to guarantee full compliance with the most current fire codes. The coverage unit amplifies FirstNet and LMR signals up to 24 dBm and 30 dBm output power. The ease of installation plus the Self-Organizing Edge Intelligence makes Cel-Fi's QUATRA RED the most compelling solution in the market.

Key Features	 Class A device with 56 Channel pairs Automatic setting of UL and DL gain durin A complete end-to-end public safety ERR MHz LMR, and FirstNet Full Compliance with IFC 510, NFPA 1221 NEMA 4 Rated Built-In Remote Monitoring 	CS solution, for 700 & 800	Use Cel-Fi WAVE PRO mobile app for seamless integration and configuration of the Cel-Fi QUATRA RED product line.				
System Features	Antenna pointing algorithm to optimize FirstNet donc Near real-time uplink/downlink automatic gain contro PoE architecture allows 325 ft (100 m) distance rang Up to six (6) CUs can be attached to a single NU Remote monitoring through Cel-Fi WAVE PRO app an Real-time, slot-to-slot gain control	I (AGC) e between the NU and the CUs					
	Support for all FirstNet LTE bands (2, 4, 12, 14) Support for 700 MHz and 800 MHz (P25, Analog) Up to 56 channel pairs can be distributed across 700 NFPA 1221, IFC 210, UL 50E, UL 2524 Certified Uplink Muting Mode automatically shuts down uplink Independent donor antenna ports for FirstNet and LM	transmissions when no active user eq	uipment is detected				
Benefits	One solution provides a complete code-compliant ERRCS system Power Over Ethernet (PoE) architecture makes Coverage Unit (CU) installation simple Modular architecture allows scaling the system from 1W to 6W Certifications reduce time-to-market and downstream costs Remote monitoring assures that the system is performing per design Minimal noise in network through optimal gain and power settings ensure best overall radio performance Assured best audio quality						
Power	MODEL NUMBERS F41-8XCU	CONSUMPTION (WATTS) @ 48	VDC				
Environmental	Operating Temperature Product Ingress Protection (IP) Rating Relative Humidity Maximum Surface Temperature (any point)	-20 to 50°C / -4 to 122°F UL Type 4 0% to 95%, noncondensing 44°C @ 30°C ambient / 111°F @ 8	36°F				
Installation	Mounting hardware included CU can be wall mounted iBwave VEX files available						

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Coverage Unit

DATA SHEET MODEL NUMBER: F41-8XCU

Radio Performance			Ľ	ΓE		LN	ΛR	
	BAND	2	4	12	14	700	800	
	Frequency Range, Downlink (MHz)	1930-1990	2110-2155	728-746	758-768	769-775	851-861	
	Frequency Range, Uplink (MHz)	1850-1910	1710-1755	699-716	788-798	799-805	806-816	
	Technology	LTE-20 MHz	LTE-20 MHz	LTE-10 MHz	IHz LTE-10 MHz P25/Analog P2		P25/Analo	
	DL output Power (dBm)		24 -90					
	UL Minimum Input level (dBm)							
	UL Maximum Input level (dBm)	-35					-27	
	In-band ripple (dB)			2	2			
	System maximum gain (dB)	100						
	Noise Figure at max gain (dB)			Ľ	5			
	Return loss (dB)				8			
	Desense @ 5 MHz BW (dB)		5					
	System Group Delay @ 12.5 kHz (usec)	35						
Coverage Unit	WIDTH	HEIGHT		DEPTH		WEIGH	Т	
Physical Specifications	284 mm	343 mm		89 mm		5.5 kg		
		Coverage Unit (C (front & bottom vi		front view)	(side view)			
	1x RF antenna port – Type-N female 2x RJ45 LAN management output por	t (10/100 Fast E	Ethernet)					
Compliance	FCC Part 15, 22, 24, 27, 20, 90	UL 252	4	IFC 510	NFPA 12	21	UL 50E	
	Cel-Fi WAVE PRO mobile app Cel-FI WAVE Portal: • Status (List and Map) • Diagnostics • Commissioning • Software Updates • Alarms & Notifications							
	Cel-Fi QUATRA products are covered by multiple Nextivity, Inc., patents and pending patents. Designed by Nextivity, Inc. in San Diego, California, USA.							
	MODEL NUMBERSPRODUCT DESCRIPTIONF41-8XCUCel-Fi QUATRA RED CU, FirstNet + 700/800 MHz LMR							





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