CEL-FI SOLO RED LMR 700/800 Integrated Public Safety RD Integrated Public Safety BDA

The Cel-Fi SOLO RED public safety solution is a half-watt emergency radio communication system that delivers best-in-class talk-in and talk-out performance with a no noise guarantee. An ERCES solution that fully complies with current fire codes, SOLO RED is an Integrated Public Safety BDA that provides 700/800 MHz Land Mobile Radio (LMR) coverage in buildings up to 238,000 ft². This versatile system converts between Class A and Class B in the field using the WAVE PRO app and accepts DC power from either the purpose-built Cel-Fi SOLO RED Battery Backup Unit (BBU) or a standard third-party BBU device. In addition to being compatible with other public safety systems, SOLO RED is listed to UL 2524 and complies with IFC 510 and NFPA 1221. SOLO RED also works alongside Cel-Fi COMPASS XR and the Cel-Fi WAVE Portal for seamless installation and robust remote monitoring and management capabilities.



DATA SHEET

MODEL NUMBER

L41-7EB

SAFER

BUILDINGS COALITION Member

Integrated Public Safety BDA

Key Features	 ERCES Public Safety Solution: 0.5W Emergency Radio Communication System for 700/800 MHz LMR Class A Device: 64 Channels at 12.5 kHz Bandwidth (Software selectable) Class B Device: 56 Channels at 100 kHz or 150 kHz Bandwidth (Software selectable) Large Coverage Area: Up to 238,000 ft² for Small-to-Mid Sized Buildings No Noise Guarantee: Automatic Calculation and Setting of Isolation as well as Uplink and Downlink Gain Talk-Out & Grid Testing: Industry-First Uplink and Downlink Tests via Cel-Fi WAVE PRO and COMPASS Intelliboost Chipset: Delivers Unparalleled Real-Time Talk-in & Talk-Out Performance End-to-End System Monitoring: Built-in Remote Monitoring and Management via Cel-Fi WAVE Portal 				
Public Safety Network & Network Protection Features	Support for 700 MHz and 800 MHz (P25, Analog) NFPA 1221, IFC 210, NEMA 4 certified, listed to UL 2524 Automatic UL and DL gain setting for Public Safety Channels Uplink Muting Mode (Squelch) automatically shuts down uplink transmissions when no active user equipment is detected				
Benefits	One solution provides a complete code-compliant ERCES system 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	Consumption @ 12 VDC, 62 W Max				
Environmental	Operating Temperature -20 to 50°C / -4 to 122°F				
	Product Ingress Protection (IP) Rating	NEMA 4	NEMA 4		
	Relative Humidity	0% to 95%, Noncondensing	0% to 95%, Noncondensing 44°C @ 30°C Ambient / 111°F @ 86°F		
	Maximum Surface Temperature (any point)	44°C @ 30°C Ambient / 111°F @			
Installation	Wall-mounting hardware included iBwave VEX files available				
Radio Performance		LM	LMR		
	Band	700	800		
	Frequency Range, Downlink (MHz)	768-775	851-861		
	Frequency Range, Uplink (MHz)	798-805	806-816		
	Technology		P25/Analog 27 26 -100 / -90 -20 / -27 100		
	DL (Downlink) Output Power (dBm)				
	UL (Uplink) Output Power (dBm)				
	Minimum Input Level (DL/UL) dBm				
	Maximum Input Level (DL/UL) dBm				
	System Maximum Gain (dB)				
	Noise Figure at max Gain (dB)	5	5		

Return loss (dB)	-8	
System Group Delay @ 12.5 kHz (usec) (Class A)	28	
System Group Delay @ 100 kHz / 150 kHz (usec) (Class B)	15 / 13.6	

Physical Specifications	11.	18.11 in .42 in .484 in	Estimated Weight: 12 lb	
Connections	2x Type-N female connectors (Donor & Server Antennas) 1x 24 pin alarm connector 1x RJ45 connector for connection to the remote annunciator 1x Terminal block for power-off switch and external alarms 1x DC port for connection to the battery backup unit			
Certifications	FCC Part 15, 90	Listed to UL 2524 IFC 510 NFPA 1221 NEMA 4 ISED (Canada)	2524 LISTED	
System Management	Cel-Fi WAVE PRO mobile app Cel-FI WAVE Portal: • Status (List and Map) • Diagnostics • Settings • Commissioning • Software Updates			
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