

SAFE-1050

Integrated Public Safety Distributed Antenna System



Compact BDA combining signal amplification and backup power.

- Single-band or dual-band configuration options.
- Plug-in channel cards and filtering deliver strong, clear, reliable signal performance.
- LiFePO₄ battery reduces weight and space requirements.
- Built-in backup power supports operation during outages to maintain responder communication.
- Single-cabinet design simplifies installation and reduces overall footprint.
- UL 2524 certified and FCC ID 2AKSM-SAFE5.



Specifications

	Single Band	Dual Band
MegaHertz	700 or 800 MHz	700 and 800 MHz
Power Supply	120 VAC	120 VAC
Power Consumption*	32.5 Watts (Average)	44.6 Watts (Average)
Output Power Per Band*	29 dBm	32 dBm
Digital Filters**	17 or 34 Frequency Pairs	17 or 34 Frequency Pairs
Backdrop Duration	24 Hours	24 Hours (17 Frequency Pairs) 12 Hours (34 Frequency Pairs)
RF Input	0 dBm (Max, No Damage)	0 dBm (Max, No Damage)
RF Output	1 Watts	2 Watts

* RF output power, output power per band, noise figure and power consumption depends on configuration. Other sub-bands are available. FirstNet available as required. RF Power +/- 2dB, Consult Customer Service for applications and quotations support.

** Digital filters expandable in sets of 34 (17 pairs).

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Supplementary Information (Single & Dual Band)

Channel Card Input Frequency Range	700 Uplink: 799 to 805 MHz 700 Downlink: 769 to 775 MHz 800 Uplink: 806 to 816 MHz 800 Downlink: 851 to 861 MHz
Class A and Class B Filter Latency	12.5 kHz: 60 μ s 25 kHz: 35 μ s 50 kHz: 25 μ s 75 kHz: 15 μ s 200 kHz: 10 μ s 500 kHz: 8 μ s
Noise Figure	6 dB (Typical)
Alarms	6 NFPA Alarms + Oscillation Alarm, Alarm to Indicate a Lost Data Connection to the Remote Annunciator, Door Alarm
Gain Control	30 dB (+/- 1 dB Steps)
Gain Range	80 dB Standard (90 dB Optional)
Squelch Range	-85 - -50 dBm
AGC Range	60 dB
Dimensions	19.0" x 18.0" x 6.7"
Weight	50 lbs
Enclosures	NEMA 4

Part Numbers

	0.5 Watt	1 Watt	2 Watt
700 & 800 MHz 1 DFA 17 Frequency Pairs	SAFE-1050-0A7A8A	SAFE-1050-1A7A8A	SAFE-1050-2A7A8A
700 & 800 MHz 2 DFA 34 Frequency Pairs	SAFE-1050-0B7A8A	SAFE-1050-1B7A8A	SAFE-1050-2B7A8A
800 MHz 1 DFA 17 Frequency Pairs	SAFE-1050-0A8A	SAFE-1050-1A8A	SAFE-1050-2A8A
700 MHz 1 DFA 17 Frequency Pairs	SAFE-1050-0A7A	SAFE-1050-1A7A	SAFE-1050-2A7A
700 MHz 2 DFA 34 Frequency Pairs	SAFE-1050-0B7A7A	SAFE-1050-1B7A7A	SAFE-1050-2B7A7A
800 MHz 2 DFA 34 Frequency Pairs	SAFE-1050-0B8A8A	SAFE-1050-1B8A8A	SAFE-1050-2B8A8A
700 & 800 MHz 2 DFA 34 Frequency Pairs 2 Service Ports	SAFE-1050-0D7A8A	SAFE-1050-1D7A8A	SAFE-1050-2D7A8A

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