

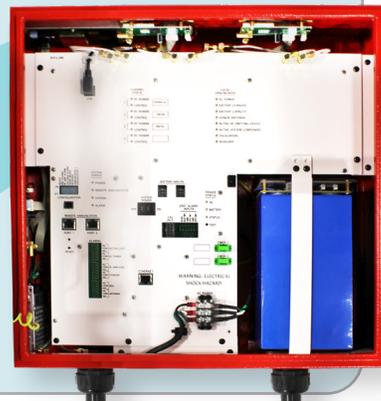
SAFE-1050

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 frequency pairs	17 or 34 frequency bands
Backdrop Duration	24 hours (17 frequency pairs)	24 hours (17 frequency pairs) 12 hours (24 frequency pairs)
RF Input	0 dBm (max, no damage)	0 dBm (max, no damage)
RF Output	1 watt	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).

Continued on Back

AVIRE

N56W24720 N Corporate Cir., Sussex, WI 53089

800-451-1460

sales.us@avire-global.com

avire-global.com/en-us

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 plus an oscillation alarm, an alarm to indicate a lost data connection to the remote annunciator, and a 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
Compatible RATH® Products	Remote Annunciator (SAFE-AN-1002)

Part Numbers

SAFE-1050-A7A	700 MHz, 17 Frequency Pairs
SAFE-1050-A8A	800 MHz, 17 Frequency Pairs
SAFE-1050-A7A8A	700 & 800 MHz, 17 Frequency Pairs
SAFE-1050-B7A8A	700 & 800 MHz, 34 Frequency Pairs
SAFE-1050-D7A8A	700 & 800 MHz, 34 Frequency Pairs, 2 Service Ports

WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. You MUST register Class B signal boosters (as defined in 47 CFR 90.219) online at www.fcc.gov/signal-boosters/registration. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

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