

SAFE-1020

Head End



Centralized fiber head end for scalable Public Safety DAS deployments.

- Supports multiple frequency bands in a single head end.
- Fiber architecture enables long-distance signal distribution.
- Plug-in channel cards simplify system expansion and servicing.
- Supports unlimited remote units with expansion modules.
- Compatible with battery backup units and remote annunciators.
- UL 2524 certified. FCC ID 2AKSM-SAFE2.



Specifications

Frequency Bands	UHF, VHF, FirstNet, 700, 800, and 900 MHz (configuration dependent)
Channel Capacity	Up to 10 cards (small enclosure) or 20 cards (large enclosure)
Remote Unit Capacity	Unlimited (with expansion modules)
Optical Loss Budget	0 - 10 dB
Digital Filters	17 filter pairs, expandable to 34 filter pairs
Gain Control	30 dB in 1 dB steps
Gain Range	50 - 90 dB (typical)
RF Output Power	700/800 MHz: 30 dBm $\pm$ 2 dB UHF: 28 dBm $\pm$ 2 dB VHF: 27 dBm $\pm$ 2 dB
Power Requirements	9 - 12 VDC (120 VAC optional via BBU)
Power Consumption	80 W max peak, 40 W average
Enclosure	NEMA 4
Cabinet Sizes	Small: 15" $\times$ 12" $\times$ 6.7" Large: 19" $\times$ 18" $\times$ 6.7"
Operating Temperature	14 - 122°F (-10 - 50°C)

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