BASE STATION/REPEATER CASCADE





KEY FEATURES

- Remote programming and diagnostics allow for system flexibility
- Designed for small-to-medium markets to help build affordable networks
- System-in-a-box solution providing voting, simulcast, and P25 trunking network control
- Ultimate solution for controlling system redundancy
- Remote site monitoring allows operators to always be aware of their system's health and operations

Codan's Cascade is a next-generation P25 base station/repeater integrated system-in-a-box. This all-inclusive package features a modular design allowing for two 100W P25 repeaters mounted inside a 4RU subrack complete with P25 DFSI network interface and power supply.

BUILT-IN CONTROLLER

It's never been easier or more affordable to build your own network. Each Cascade repeater contains a built-in network and is upgradeable for simulcast/voting.

REMOTE PROGRAMMING AND DIAGNOSTICS

Integrated into the Cascade repeater are the networking control modules that allow for remote monitoring via web browser. Cascade's diagnostics, alarming, and logging functions are built-in, allowing for a wide range of system health parameters to be monitored remotely.

OPEN STANDARDS INTERFACE

Only open P25 standards are used for external interfaces to a Cascade network, including DFSI (Voice and Data). Built around standards requirements from FCC, TIA, IC, ETSI and ACMA, the Cascade repeater provides the extremely high performance expected from a Public Safety LMR system.

Cascade is available as a base station or repeater, or base station/repeater combination. Cascade can be configured for operation in VHF frequency bands. The standard Cascade configuration comes with a 10-100 W power output, 48V DC power inputs, and P25 DFSI interface.

BASE STATION/REPEATER CASCADE



148 to 174 MHz
6.25, 12.5 kHz
1.25 kHz
Full Band
≥ -120 dBm
≥ 60 dB
\leq -95 dBm (9 kHz to 1 GHz)
≥ 80 dB
*N/A (≥ 45 dB)
≤ 0.5 ppm
*N/A (≤ 2%)
*N/A (Max -8 dBm)
-30 to +60°C
≤ 200 mA
148 to 174 MHz
6.25, 12.5 kHz
1.25 kHz
Full Band
10 to 100 W (in 1 W Steps)
100%
≤ -90 dBc
\geq 60 dB (Analog), \geq 65 dB (Digital)
\geq 55 dB (Analog), \geq 65 dB (Digital)
*N/A (≥ 45 dB Analog)
≤ 0.5 ppm
*N/A (≤ 2%)
Any (with fold-back)
-30 to +60°C
≤ 250 mA @ -48 V (no fan)
\leq 7.25 A @ -48 V (@ 100 W with fans)
8K10F1D, 8K10F1E, 8K10F1W, 8K10F7W, 8K70D1D, 8K70D1E, 8K70D1W, 8K70D7W, 9K80D7D, 9K80D7E, 9K80D7W, 11K0F3E

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

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CANADA +1 250 382 8268	US +1 571 919 6432	AUSTRALIA +61 8 8305 0528	UAE +971 44 53 72 01	LMRSALES@CODANCOMMS.COM
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