

The CS7000 is a compact, state-of-the-art control station that provides

- Dual-band half-duplex operation with an XG-75M
- Single-band half-duplex operation with an M5300
- 700/800 MHz, VHF 50W, UHF-L, and UHF-H frequencies with an XG-75M; and 800 and 900 MHz frequencies with an M5300



Multiple Operating Modes

The CS7000 supports multiple operating modes, including OpenSky® digital operation, Enhanced Digital Access Communication System (EDACS®) or ProVoice™ trunked modes, P25 digital trunked mode, P25 digital conventional mode, and conventional analog mode.

Project 25 Interoperability

The CS7000 provides Project 25 digital conventional or trunked capabilities for interoperability with other critical communications users.

Over-the-Air Programming

Harris radios benefit from a flexible, software-based, digital radio design. Features and user profiles are software-defined and can be reprogrammed over the air. The over-the-air programming feature allows communications protocols to be changed easily and added at any time.

User Interfaces

The CS7000 provides a Controller Area Network (CAN) interface that supports multiple control heads or SP721 controllers (see reverse side of page). This capability allows users to operate either a single dispatch group with multiple users or a dispatch center with multiple groups, all on a first-come, first-served basis. Alternatively, the CS7000 can be configured to support tone remote

equipment connected via the optional remote interface module.

The CS7000 can interface with the SP721 Desktop Controller. The SP721 is a fully digital remote controller that uses the industry standard CAN interface. The SP721 provides the same user interface as the CH-721 Control Unit.

The mobiles for the CS7000 provide a fixed audio level to the remote interface that is not affected by the front volume control.

External Connections

The CS7000 contains an internal power supply and requires connections only to an external N-type antenna, AC power, and a user interface. The CS7000 also includes the CAN interface which, along with the TIA/EIA-232 serial interface, allows for simple reconfiguration and peripheral support of optional equipment such as the control head or IP remote equipment.

Secure Communications

Optional password protection and Advanced Encryption Standard (AES) are available for maximum security. Harris radios operate the most advanced vocoder on a private wireless Intranet that provides maximum voice channel capacity.

OpenSky Operation

OpenSky is a secure integrated digital voice and data communication system.

OpenSky leverages the power of IP and packet technology for reliability and scalability to bring open data applications to the user. OpenSky uses a 19.2-kbps physical bit rate 4-slot Time Division Multiple Access (TDMA) airlink to achieve 6.25-kHz voice channel spectral efficiency and dynamic bandwidth allocation.

EDACS Software-Based Features

Based on Digital Signal Processor (DSP) architecture, the feature set of the M5300/XG-75M is extensive and easily expandable through software upgrades to meet the specific requirements of users.

- The standard M5300/XG-75M incorporates the critical communications features Emergency and Dynamic Regroup to deliver advanced performance.
- Trunked systems/groups may be configured for up to 1,024 different combinations and up to 1,024 conventional channels.
- ProFile™ offers easy over-the-air programming for efficient updates of radios.
- ProScan™ provides the user smooth, automatic roaming between sites.
- The M5300/XG-75M includes conventional operation.

General Specifications

Dimensions (H x W x D):

Desktop (excludes rubber feet):	3.5 x 17 x 13.1 in. (8.9 x 43.2 x 33.3 cm)
Rack Mount:	3.5 x 17 x 13.1 in. (8.9 x 43.2 x 33.3 cm)

Weight:

Without Transceiver:	18 lb (8.2 kg)
With Transceiver:	24 lb (11 kg)

Operating Temperature Range:

Local Control Unit

@ 50% duty cycle:	-22 to +104°F (-30 to +40°C)
@ 20% duty cycle:	-22 to +140°F (-30 to +60°C)

Local Remote Unit

@ 50% duty cycle:	+32 to +104°F (0 to +40°C)
@ 20% duty cycle:	+32 to +140°F (0 to +60°C)

Storage Temperature Range:

-40 to +140°F (-40 to +60°C)

System Voltage:

110-120 VAC, 50/60 Hz
220-240 VAC, 50/60 Hz

Maximum Current:

4.0 Amps

Mounting:

19-inch rack mount

Programming:

Over-the-Air Programming
Direct Connect TIA/EIA-232 Serial Programming

Safety Approvals:

UL 60950-1, CSA 22.2

Please refer to the appropriate XG-75M or M5300 Mobile data sheet for additional specifications.

Controller Support

Configuration	Supported Controllers
OpenSky Operation with CS7000 Local Remote Unit	Up to four SP721 or CH721
P25/EDACS/Analog Operation with CS7000 Local Remote Unit	Up to two SP721 or CH721 in Dual Mode
P25/EDACS/Analog Operation with CS7000 Local Remote Unit	Up to five SP721 or CH721 in Parallel Mode

Options and Accessories

- Tone Remote Interface Module for connectivity to third-party tone
- Advanced Encryption Standard (AES)
- 7 dBd (9 dBi) Directional Antenna (N-type Connector)

