

Local control at the control unit for the M7100^{IP} Desktop and Wall Mount Station allows users to take full advantage of the features and functions of the M7100^{IP} Mobile in a versatile desktop package. The station operates on Project 25 conventional and trunked modes, as well as Enhanced Digital Access Communications System (EDACS) and ProVoice digital trunked communications systems, and is also ideal for analog conventional communications systems.



Product Overview

Based on the tradition of the popular Orion[™] Desktop Station, the M7100^{IP} Desktop Station was designed to meet the critical communications demands of public safety users. It includes a high-specification, feature-rich mobile built to deliver superior performance, an internal speaker, and a front accessible microphone connector. With the M7100^{IP} Desktop Station, the user can create a desktop command post.

Software-Based Features

Based on Digital Signal Processor (DSP) architecture, the feature set of the M7100^{IP} is extensive and easily expandable through software upgrades to meet the specific requirements of users.

- The standard M7100^{IP} incorporates the critical communications features Emergency and Dynamic Regroup to deliver advanced performance.
- Trunked systems/groups may be configured for up to 800 different combinations and up to 255 conventional channels.
- The Extended Network feature package upgrades capacity to 800 system/group combinations and includes ProScan[™] and ProFile[™]. Individual software options may also be added to meet user requirements.

- ProFile offers easy over-the-air programming for efficient updates of radios.
- ProScan provides the user smooth, automatic roaming between sites.
- The M7100^{IP} includes the full conventional feature set with dual priority scan and various tone signaling formats.

Project 25 Interoperability

The M7100^{IP} Desktop Station is Project 25 compliant and is ideal for use as either a P25 digital conventional or trunked mode station. The station provides digital interoperability with other Project 25 users during critical communications situations.

Advanced Digital Voice

In addition to the Project 25 digital mode, the M7100^{IP} Desktop Station is available with M/A-COM's third-generation digital voice technology, ProVoice. ProVoice utilizes the acclaimed Improved MultiBand Excitation (IMBE[™]) vocoder. State-of-the-art digital signal processing techniques used in ProVoice also allow the M7100^{IP} to deliver exceptional voice quality in areas where the signal strength from the repeater is weak.

EDACS Security Key

The M7100^{IP} Desktop Station supports the EDACS Security Key (ESK), which is an EDACS/ProVoice feature. ESK prevents unauthorized users from programming radios for use on and from accessing an EDACS or ProVoice system.

Options and Accessories

The optional Orion System Control Unit with its numeric keypad allows dispatchers to make individual calls and interconnect calls. An optional battery backup capability enables the user to automatically switch the desktop to an alternative power source. A clock and VU meter unit is also available.

For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

General Specifications

System Voltage*:	90-130V @ 50/60 Hz
Temperature Range:	-22 to +140°F ambient (-30 to +60°C)
Humidity:	90% @ 104°F (40°C)
Dimensions (H x W x D):	5.98 x 17.33 x 15.71 in. (152 x 440 x 399 mm)
Weight (average):	22.8 lb (10.4 kg) without radio
Duty Cycle**:	Receive: 100% Transmit: 50% up to 104°F (+40°C) 20% up to +140°F (+60°C)
Programming:	Externally field programmable through front microphone jack.
Microphone:	Order with radio.
Construction:	Rugged sheet metal construction.
Regulatory Information:	FCC/Industry Canada Data – Dependent on mobile.

* Power Supply is UL Approved

** Meets EIA