



ASTELA

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APCO
4920

APCO P25 MISSION CRITICAL
MOBILE RADIOS

#PublicSafetyCommunication



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APCO P25 MISSION CRITICAL MOBILE RADIOS

The ASTELA APCO4920 Mobile Radio is a multiband and multimode mission critical radio with many scenarios in public safety communication. In case of emergency, the radio operates in several mode and band for providing the continuity of the communication among the teams.

Multiple Operation Modes

ASTELA APCO4920 Mobile Radio can operate in simplex (from radio-to-radio), direct (via repeaters), wide area conventional system and wide area trunk system modes.

In addition to APCO P25, SK2 communication protocol is supported on the same hardware. Radio users can switch between APCO P25 and SK2 via radio menu. This software-based support is offered as an optional item.

ASTELA APCO4920 radio has backward compatibility with legacy analog FM radios, which provides radio users with the possibility of easy transition from analog to digital communication.

Resilience to Severe Environmental Conditions

Institutions in charge of public safety may need to use these radios in challenging environments such as very high or very low temperature, high humidity, low pressure, sand and dust. In addition, these users may need to be in action most of the time, which requires a rigid design against vibration. ASTELA APCO4920 Mobile Radio is designed by considering these requirements and supports MIL STD 810E standards.

Real-Time Location Tracking

Thanks to the integrated GPS module, ASTELA APCO4920 Mobile Radio can detect its current location depending on the received signals from GPS satellites. In addition, radio users can send their locations -manually or automatically- in all digital operation modes.

Blueforce Tracking Service

The authorized users can track the location of GPS-equipped radios in lower hierarchy on BiGA P25 System. Vector and raster maps can be displayed, instant speed and direction information can be tracked, route identification (navigation) can be obtained, authorized radios can instantaneously track and monitor other team radios equipped with a GPS module through the ATLAS ® map application on ASTELA APCO4920 Mobile Radio and ATLAS AVL application on command center.

Flexibility of Customization

Communication system operators may need to give different type of authorizations to radio users depending on their organizations and tasks. By programming/updating the parameters of the radios, it can be ensured that all radio users have different menus/options on their devices. Radio has a flexible hardware and software structure enabling multiple languages on the radio.

ASTELA APCO4920 Mobile Radio is a multi-head radio. One of them, the handheld type control unit provides using the radio like a handheld radio.

General Properties

- Trunk or Conventional
- Multi System Support
- Multi Band Support
- Multi Zone Support
- Built-in GPS Option
- Built-in Wi-Fi Option
- Hardware Encryption
- Linux OS
- Colored Display
- Seamless UX Experience Across 4900 Family
- Informative Alerts
- Various Head Controller

Technical Properties

Frequency	: VHF (136-174 MHz) and UHF (380-470 MHz)
RF Output	: 10 - 40 W (VHF) and 10 - 30 W (UHF)
Channel Capacity	: 999
Dimensions (HxWxD)	: 61 x 177 x 246 mm (Without Projections)
Weight	: 2450 gr
Operating Temperature	: -30°C / +60°C (Transceiver)
Storage Temperature	: -40°C / +85°C (Transceiver)
Humidity	: 90%, +50°C

Standards and Certificates

APCO P25	: EIA/TIA 102 CAAB-C
Low Voltage	: EN 60950, IEC 62368
EMC	: EN 301 489-1, EN 55032
Digital	: EN 300 113-2
Analog	: EN 300 086-2, EIA/TIA 603D
High Temperature	: MIL-STD-810G M 501.6 Pro I Cat-A1, Pro II Cat- A1
Low Temperature	: MIL-STD-810G M 502.6 Pro I Cat C2, Pro II Cat C1
Temperature Shock	: MIL-STD-810G M 503.6 Pro I-B
Humidity	: MIL-STD-810G M 507.6 Pro II
Sand and Dust	: MIL-STD-810G M 510.6 Pro I, II
Shock	: MIL-STD-810G M 516.7 Pro I