ASTELA | DMR 3720

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DMR MISSION CRITICAL MOBILE RADIOS

#PublicSafetyCommunication

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DMR MISSION CRITICAL MOBILE RADIOS

Excellent range and audio quality in all digital and analog systems, and rich features to enhance safety and security.

Multiple Operation Modes
ASTELA DMR3720 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, DMR communication protocol is supported on the same hardware. Radio users can switch between APCO P25 and DMR via radio menu. This software-based support is offered as an optional item.

Furthermore, this 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 DMR3720 Mobile Radio is designed by considering these requirements and supports MIL STD 810G standards. Furthermore, IP54 Ingress Protection is supported by this radio.

Real-Time Location Tracking
Thanks to the integrated GNSS module, ASTELA DMR3720 Mobile Radio can detect its current location depending on the received signals from GPS, GLONASS and GALILEO satellites. In addition, radio users can send their locations -manually or automatically- in all digital operation modes during voice call.

A Wide Range of Peripheral Units and Audio Accessories Including Wireless Options
Depending on the use scenario, additional peripheral units and accessories may be needed by the radio users such as hands-free use via VOX, mounting control panel separately. Thanks to the integrated Bluetooth module option of ASTELA DMR3720 Mobile Radio, and ASELSAN inventory of peripheral units and audio accessories, radio users can choose whatever they need for their own specific needs.

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.

ASTELA DMR3720 Mobile Radio has a flexible hardware and software structure enabling multiple languages on the radio.

General Properties

- Colored screen
- Conventional (tier-2) or trunk (tier-3)
- USB and RS232 connections
- Built-in gps option
- Wi-Fi and bluetooth options
- AES-256/customized algorithm options
- Dash or trunk mount option
- Multiple language support
- Various audio accessories
- Colored display
- Seamless UX experience across 3700 family
- Caller ID
- Informative alerts

Technical Properties

Frequency	: VHF (136-174 MHz) or UHF (380-470 MHz)
RF Output Power	: 10-40W (VHF) or 10-30W (UHF)
Channel Capacity	: 999
Dimensions (HxWxD)	: 50.5x176x166 mm (without projections)
Weight	: 1,65 kg
Bluetooth	: Optional
Accelerometer	: Available
Light Sensor	: Available
GNSS	: Available
Operating Temperature	: -30°C / +60°C (Transceiver)
Storage Temperature:	: -40°C / +85°C (Transceiver)
Humidity	: 90%, +50°C

Standards and Certificates

DMR	: EN 102 361-2, 3, 4
CE	: 2014/53/EU Directive
Low Voltage	: EN 60950, IEC 62368 (2014/35/EU Directive)
EMC	: EN 301 489-1, EN 55032 (2014/30/EU Directive)
Digital	: EN 300 113-2
Analog	: EN 300 086-2
ESD	: EN 61000-4-2
Ingress Protection	: IP54 (IEC 60529)
Low Pressure	: MIL-STD-810G M 500.6 Pro I, II
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
Sand and Dust	: MIL-STD-810G M 510.6 Pro I, II
Vibration	: MIL-STD-810G M 514.7 Pro I Cat 24

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