

ST@R Mille -S

Handheld Enhanced Squad Radio



ST@R Mille -S

**is an enhanced handheld radio
for intra squad communications**

- 325-470 MHz frequency band
- Range up to 1.5 km in open terrain
- Simultaneous voice, GPS and data
- Conference mode
- Hands-free operation
- Dual PTT
- High data rate
- Automatic relaying capacity
- IP based networking capacity
- AES256 encryption
- Software based radio architecture



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OVERVIEW

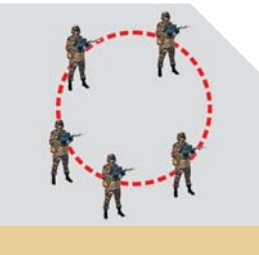
ST@R Mille -S is a Thales brand new soldier radio providing an enhanced handheld solution for intra squad communications, able to be used in stand-alone configuration or easily integrated in a soldier C4I sub-system for advanced soldier applications (e.g. Situation Awareness).

Thanks to its advanced RF and signal processing and IP capacity, **ST@R Mille -S** greatly improves the coordination and awareness of soldiers within squad/team. Some key features are:

- Low UHF frequency band providing an optimized range in all conditions including urban and dense vegetation environments
- Infrastructure-free and self-synchronized network architecture for easy deployment without any network constraints
- Simultaneous voice, GPS/short message and data capacity for better QoS management
- Duplex voice and conference with up to three talkers and unlimited numbers of listeners for improved coordination
- High user data rate capacity (~300 kbps) for real-time data transmission such as video, in addition to voice and GPS/short messages services
- Dual Push-To-Talk for connectivity with other radio (e.g. attached CNR) allowing communication with other networks
- USB/Ethernet interface for easy integration with computer, tablet or PDA in soldier C4I sub-systems
- AES256 encryption providing enhanced security

ST@R Mille -S is also available in intra Platoon version (**ST@R Mille -P**) and vehicular lightweight version (**ST@R Mille -V**) for easy integration in mounted configuration.

ST@R Mille handheld radio associated with its set of ancillaries (lightweight headset, vehicle installation kit, tactical PDA...) provides a comprehensive and powerful solution for Soldier Modernization Programs and Homeland Security applications.



FEATURES

MAIN CHARACTERISTICS

- **Frequency band:** 325-470 MHz
- **Radio access:** TDD and FDD
- **Channel band:** 1 MHz
- **Preset channels:** 16
- **Output power:** 2 W nominal
400 mW (nominal option)
1 mW low power mode
- **Range:** Up to 1.5 km in open terrain
Up to 500 m in urban terrain
Extended range with automatic voice and GPS relaying
- **Services:** Simultaneous voice and data
Full duplex
Voice conference up to 3 talkers
PTT or VOX activation
Priority break-in
Whisper mode
Data QoS management
Automatic split and merge
- **Data rate:** 1000 kbps over the air
- **Encryption:** AES256, other encryption option on request
- **Autonomy:** > 12 hours typical
- **Size:** 75x141x37 mm
- **Weight:** < 370 gr for radio unit (2 W)
- **Interfaces:** V24/V28
USB/Ethernet
Audio and PTT main
Audio and PTT (auxiliary)
DC input (charging battery or main power)
SMA antenna
- **Power supply:** Li-Polymer rechargeable batt.
External (9 to 16 VDC)
Standard AA battery (optional)

ENVIRONMENTAL CHARACTERISTICS

- **Operating temperature:** -30 °C to +55 °C
- **Environment:** MIL-STD-810F
- **EMC and safety:** MIL-STD-461E

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