

# PUMA T4-LE

Homeland Security & Critical Infrastructures

## PUMA T4-LE (LTE ENHANCED) NEW GENERATION PROFESSIONAL HANDHELDS

The PUMA T4 handheld introduces a new concept of handheld device, with a modular design combining reliable and secure communications with new value-added services that greatly enhance efficiency in daily operations and emergency situations. An Android based general purpose core provides computing, ancillaries and MMI functions integrated with radio communications provided by a modem component that can be delivered in different versions.

Field officers are presented with increasingly demanding challenges. These evolving scenarios require dismounted officer to act as mobile sensors (feeding data into control centres) in addition to autonomous operating units. The increased importance of data communications (audio and video) is shaping the requirement for new devices that support the activities of first responders in a flexible way without compromising the security and robustness that are characteristics of PMR radios.

The PUMA T4-LE provides officers with a flexible tool combining the power and performance of LTE with the ruggedness and reliability of a traditional PMR device.

On LTE systems equipped with the Communication Service Platform (CSP) core network, PUMA T4 can provide 'Tetra-like' voice communications together with video and multimedia. The PUMA T4-LE is also able to operate on 2G/3G commercial networks.

### Key features

- Large touch-screen display
- Android OS with a set of apps supporting admin, browsing, situation awareness, image and video
- LTE and 3G support
- Local communications capability including WiFi, Bluetooth and NFC establishing a personal area network for sensor connection
- GPS and accelerometer for enhanced location services
- Expandability via external accessories



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# PUMA T4-LE

## TECHNICAL DATA

Radio characteristics	
Frequency bands	
LTE	Band 1, 3, 7, 8, 20
UMTS/HSPA+	Band 1, 2, 5, 8
GSM/GPRS/EDGE	850, 900, 1800, 1900MHz
Protocols	LTE, HSPA (DC+), UMTS (WCDMA), EDGE, GPRS
Output power (LTE)	32dBm (max)
Channel size (LTE)	1.4, 3, 5, 19, 15, 20
Security support	End-to-End Encryption (with applique) in a CSP context
Mechanical characteristics	
Dimensions (HxLxW inc. battery)	138mm x 60mm x 38mm
Weight (included battery)	Approximately 400g
Environmental specifications	
Operating temperature	-20 °C to +55 °C (conformance tested) -30 °C to +60 °C (degraded)
Storage temperature	-40 °C to +85 °C
Water and dust protection degree	IP67
Operating System and Memory	
Operating System	Android 5.1
RAM	1GB
Internal Storage	8GB FLASH eMMC
Additional Storage	Micro SD (Up to 32GB)
User Interface	
Display	3.6" high resolution colour LCD TFT with 16 million colours
Rotary knob	Unique knob for both talkgroup selection and audio volume
PTT and programmable keys	Large PTT for half-duplex voice calls Two programmable functional keys next to PTT
Emergency button	Placed on handheld top, programmable to send emergency call and/or status
Navigation keys	Four arrow navigation keys with acceptance button in central position Two programmable keys (F1, F2)
LED	One red and one blue for voice calls One multicolour for wireless connection (Bluetooth, Wi-Fi) to other devices and accessories
Brightness and proximity sensors	For automatic display brightness adjustment For automatic de-activation of touch screen display and private call loudspeaker activation
Microphone/loudspeaker	One loudspeaker for private calls placed above the display Two microphones /loudspeakers placed below the navigation keys
Audio power	1W @ 4ohm each
Connections	Antenna SMA connector (upper side) 18 pin connector for dedicated accessories Micro-USB for audio data COTS accessories and battery charger positioned in the right side
Video camera	5.0 MP (2608 x 1960 pixels resolution) with LED flash, placed in the rear side



GPS	
Acquisition sensitivity	-155dBm
Tracking sensitivity	-159dBm
Location accuracy	5m (probability 50%)
Protocol	ETSI LIP standard
Additional support	Dual-mode functionality support for GLONASS
Miscellaneous	
Other HW resources	Bluetooth® Wi-Fi NCF Vibracall Accelerometer Magnetometer Gyroscope
Base applications	Browser, multimedia player/recorder, file manager, e-mail, phone book
Accessories	Antennas (short and whip), desktop and travel chargers, desktop multi-charger, headset, lightweight and throat mic headset, earphone, audio kit, wearable PTT, remote speaker microphone, skull microphone, USB programming and data cables.



For more information please email [infomarketing@selex-es.com](mailto:infomarketing@selex-es.com)

**Selex ES S.p.A.** - A Finmeccanica Company

Via delle Officine Galileo, 1 - 50013 Campi Bisenzio (FI) - Italy - Tel: +39 055 89501 - Fax: +39 055 8950600

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