

PUMA T4
HANDHELD RADIOS



PUMA T4

NEXT-GEN PROFESSIONAL COMMUNICATIONS DEVICES

Field officers are commonly faced with evolving scenarios requiring them to act as mobile sensors 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.

We are one of the largest manufacturers of critical communications equipment for the homeland security communities and military services. Having designed, built and managed networks throughout the world gives us unequalled product experience and a deep appreciation of the critical nature of our users' demands.

The PUMA T4 family introduces a new concept of modular handheld radio, combining reliable and secure communications with new value-added services for enhanced efficiency. Computing, ancillaries and MMI functions are integrated within a device that can be delivered in different versions. This provides users with immediate access to a full range of video and data services together with new and innovative applications to support mobile operations.

KEY FEATURES

- Large colour display
- PTT button, emergency key and rotary selector for volume/group
- Support for browsing, images and video
- Voice and data support over TETRA, 2G/3G and LTE (on TETRA bearers require CSP infrastructure for voice support)
- Touchscreen or keypad variants
- Android 5.1 OS
- Camera, WiFi, Bluetooth and Near Field Comms (NFC)
- Enhanced location services, GPS, integrated accelerometer
- Accessories interface

MODEL VARIANTS

There are six models of the PUMA T4 available which operate over different communications bearers (LTE, TETRA and Dual Mode) and are available with either a touchscreen or keyboard.

Model	LTE	TETRA	Keyboard	Touchscreen
LE	●			●
LK	●		●	
TE		●		●
TK		●	●	
TLE	●	●		●
TLK	●	●	●	





GENERAL SPECIFICATION

Regardless of the PUMA T4 variant, the core functionality and technical specification are common across all models.

The compact, ruggedised handset measures 138mm x 60mm x 38mm and weighs 400g. It uses the Android 5.1 Operating System and is equipped with 1GB RAM. The onboard FLASH storage (8GB) can easily be supplemented by using an industry standard Micro SD Card (up to 32GB).

The device is operated via a touchscreen or keyboard alongside a small number of dedicated buttons and selector switches. The touchscreen version is equipped with a 3.6" colour LCD screen while the keyboard version has 2.4" colour LCD.

The PUMA T4 is also complimented with a wide range of accessories including antennas, chargers and headsets.

TECHNICAL DATA (MODEL SPECIFIC)

MODEL	LE/LK	TE/TK	TLE/TLK
Model variant	PUMA T4-LE (Touchscreen) PUMA T4-LK (Keyboard)	PUMA T4-TE (Touchscreen) PUMA T4-TK (Keyboard)	PUMA T4-TLE (Touchscreen) PUMA T4-TLK (Keyboard)
Bearer	LTE	TETRA	Dual-mode
Frequency bands	LTE Band 1, 3, 7, 8, 20 UMTS/HSPA+ Band 1, 2, 5, 8 GSM/GPRS/EDGE 850, 900, 1800, 1900MHz	380MHz to 470MHz 806MHz to 870MHz	TETRA: 380MHz to 470 MHz and 806MHz to 870MHz GSM/GPRS/EDGE: 700MHz, 850MHz, 900MHz, 1800MHz, 1900MHz LTE: Band 1, 3, 5, 7
Protocols	LTE, HSPA (DC/+), UMTS (WCDMA), EDGE, GPRS	TETRA) TMO, TEDS, DMO, DMO Repeater, DMO via Repeater, DMO via Gateway	TETRA: TMO, TEDS, DMO, DMO Repeater, DMO via Repeater, DMO via Gateway, LTE
Output power	(LTE) 23dBm (max)	1.8W (TETRA class 3L) 4W (FM)	TETRA: 1.8W (class 3L) LTE: 23dBm (max)
Channel spacing	(LTE) 1.4, 3, 5, 19, 15, 20	TETRA 25kHz (step 6.25kHz) TEDS 25kHz and 50kHz FM 12.5kHz and 25kHz	TETRA: 25kHz (step 6.25kHz) LTE TEDS: 25kHz and 50kHz FM: 12.5kHz and 25kHz LTE: 1.4, 3, 5, 10, 20MHz
Security	End-to-End Encryption (with external accessory)	Air-Interface Encryption (TEA1, 2, 3) End-to-End Encryption (with external accessory)	TETRA: Air-Interface Encryption, (TEA1, 2, 3) LTE: End-to-End Encryption (with external accessory)
Battery life	Dependent on how the devices are configured and how the LTE network set up	Approx. 20 hours at 1W (Class 4) or 18.5 hours at 1.8W (Class 3L)	Approx. 20 hours at 1W (Class 4) or 18.5 hours at 1.8W (Class 3L)



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