TALON Personal Ubiquitous Communications (PUC)
Single-User MANET Radio

The intuitive Talon app and user-friendly radio functions make the Talon PUC a low-cost, easily-deployed addition to any Primary, Alternate, Contingent, Emergency (PACE) plan.

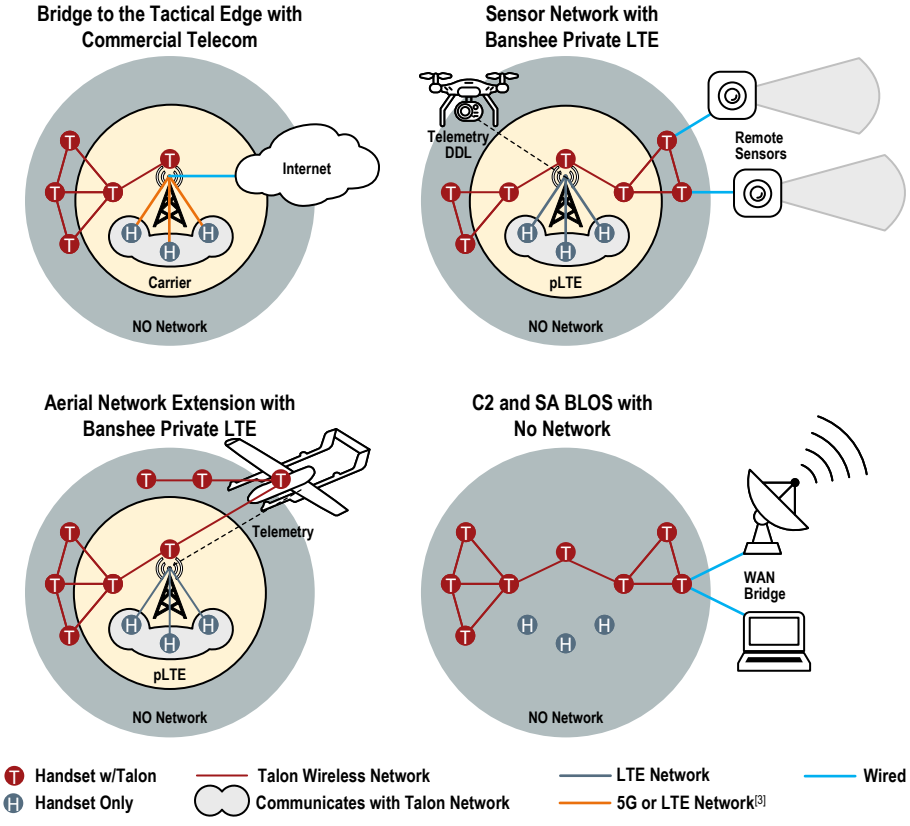
The **Talon Personal Ubiquitous Communications (PUC)** single-user Mobile Adhoc Network (MANET) radio fills an important space in the MANET radio middle-market.

- Talon is lower cost and easier to use than typical high-end military radios; and has greater throughput than most.
- Talon has greater functionality, more autonomy, and higher throughput than entry-level MANET radios.

Like any MANET radio, Talon seamlessly provides rapid recovery if the primary network fails or if the end user strays beyond the network coverage area. A group of Talon-equipped smartphones do not even need a primary network to operate. The Talon network self-creates and self-manages a private local network.

Talon is different because it integrates with a Samsung smartphone[1] out-of-the-box. The Talon network connects smartphones so they can share data, video, use Push-to-Talk (PTT) and chat apps[2], and use applications such as ATAK – all through the native Samsung smartphone interface.

Contact us about our analysis showing how the Talon PUC stacks up against competing middle-market radios. We know you will be impressed.



APPLICATIONS

Talon can bridge to any commercial carrier or any private cellular network (4G or 5G) to extend range. Talon also works with no network at all.

- Talon connects Samsung smartphones and any IP-based device (sensor, laptop) to the Talon network.
- Talon connects an attached device (sensor, laptop) to destinations Beyond Line of Sight (BLOS) via SATCOM or local carrier bridge.
- Talon connects the tactical edge to the cloud.
- Talon can enable smartphone voice, text app, data share and mission critical applications – such as ATAK – through the primary network[3] with smartphones that are not Talon-equipped.
- A Talon-equipped UAS configured as a repeater connects remote Talon-equipped devices far beyond the primary network coverage area.
- Talon connects remote sensors to the Talon network and rebroadcasts video and sensor data to other Talon-equipped devices with no primary network.

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[1]Compatible with Samsung S9 Tactical Edition, S10 unlocked, S20 Tactical Edition, S22. [2]Session Initiation Protocol (SIP) app required. [3]A properly configured third party gateway device is required to bridge the Talon network.

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Single User MANET Radio

SPECIFICATIONS

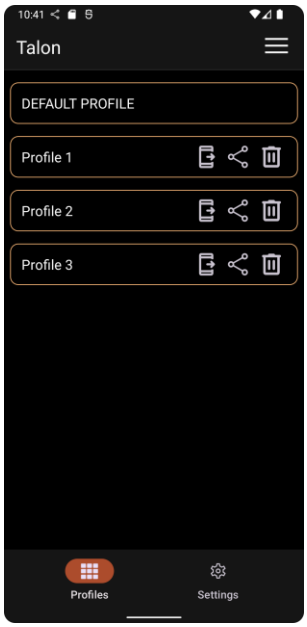
WAVEFORM	**Mobile Adhoc Network (MANET)**
BANDS	2.4GHz and other unlicensed ISM bands
CHANNEL WIDTH	4MHz or 8MHz
TRANSMIT POWER	1W per chain, 2W maximum
THROUGHPUT	Up to 25Mbps
RANGE	Up to 2km (ideal conditions)
ENCRYPTION	128AES, 256AES
IP RATING	Built to IP67 – sand, dust, water resistant
INTERFACES	USB-C (Power), USB-C (Data), RJ45 Ethernet, AUX
COMPATIBILITY	Samsung Galaxy S9 Tactical Edition, S10 unlocked, S20 Tactical Edition, S22
BATTERY	Lithium-Polymer battery pack (two auto-balancing batteries) Up to 16 hours operation (typical)
RADIO	
▪ **Dimensions**	170H x 89W x 23D (mm) 6.7H x 3.5W x 0.9D (in)
▪ **Weight**	113.5 g / 4.0 oz
BATTERY	
▪ **Dimensions**	138H x 83W x 25D (mm) 5.4H x 3.2W x 1.0D (in)
▪ **Weight**	227.0 g / 8.0 oz
ENVIRONMENT	
▪ Operating	-40° to +131°F (-40° to +55°C)
▪ Storage	-40° to +158°F (-40° to +70°C)

EASY TO USE

The Talon app is the intuitive interface used to configure the Talon radio. Easy to navigate – create a profile, push a profile. From the phone to the radio, no laptop or network required.

Smartphones (or sensors or other connected devices) do not even need to have the Talon app installed to operate within the Talon network.

The Talon radio manages itself to find, authenticate, and connect with other Talon radios. The Talon network automatically adapts to changes in user locations to move data through the network by hopping from Talon radio to Talon radio until the data reaches its destination.



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