

Data Sheet

# TLK 25 Devices

Wearable  
Communications  
Devices



**MOTOROLA** SOLUTIONS

# Let's TLK

Keep your team connected with TLK 25, a wearable WAVE PTX device that expands beyond push-to-talk capabilities. Compact, rugged and equipped with an intuitive voice assistant, TLK 25 devices make communication easy and reinforce safety, even at an extended range.



| TLK 25                                                                                                                          | TLK 25 WI-FI                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| CONNECTIVITY                                                                                                                    |                                                                                        |
| TLK 25 offers Wi-Fi connectivity and also uses nationwide LTE when Wi-Fi is not available.                                      | TLK 25 Wi-Fi uses your wireless Internet connection to get your communications online. |
| SMALL, SLEEK AND SMART                                                                                                          |                                                                                        |
| The lightweight, wearable design is shaped for safety, offering durability and discreetness.                                    |                                                                                        |
| INTUITIVE VOICE ASSISTANCE                                                                                                      |                                                                                        |
| Voice commands allow hands-free access to communications, device settings, safety features, statuses, notifications and alerts. |                                                                                        |
| PACKAGED ECOSYSTEM                                                                                                              |                                                                                        |
| Part of the WAVE PTX ecosystem, TLK 25 devices offer dedicated emergency features.                                              |                                                                                        |





# Wi-Fi only device specifications

## GENERAL SPECIFICATIONS

|                                                                |                                                   |
|----------------------------------------------------------------|---------------------------------------------------|
| Network                                                        | 2.4, 5 GHz Wi-Fi                                  |
| Channel Capacity                                               | 96 Channels                                       |
| Contact List                                                   | 300 Contacts                                      |
| Dimensions                                                     | 3.2 x 1.9 x 0.7 in (82 x 48 x 18.7mm)             |
| Weight (with Embedded Battery)                                 | 2.6 oz (73g)                                      |
| Battery Capacity                                               | 1260mAh                                           |
| Battery (Type Battery)<br>Operating Hours<br>5:5:90 Duty Cycle | 16 hours                                          |
| IP Rating                                                      | IP67                                              |
| Ports                                                          | USB Type-C (use for charging)<br>3.5mm audio jack |
| Sensor                                                         | Accelerometer                                     |
| Apps                                                           | Powered by WAVE PTX                               |
| Encryption                                                     | AES 256                                           |

## AUDIO SPECIFICATIONS

|                                                    |            |
|----------------------------------------------------|------------|
| Digital Vocoder Type                               | OPUS       |
| Audio Response                                     | +1, -3     |
| Audio Distortion at Rated Audio                    | <1%        |
| Maximum Speech<br>Loudness by Default <sup>1</sup> | 115 dB SPL |

## WIFI SPECIFICATIONS

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| Frequency Range             | 2.4 GHz, 5 GHz                                     |
| Standards Supported         | 802.11 a, b, g, n, ac                              |
| Security Protocol Supported | WPA2 (personal and enterprise),<br>WPA3 (personal) |
| Maximum Number of SSIDs     | 5                                                  |

## BLUETOOTH

|                               |                |
|-------------------------------|----------------|
| Version                       | 5.0 LE         |
| Range                         | 10m            |
| Supported Profiles            | HSP, SPP, GATT |
| Simultaneous Audio Connection | 1              |

## ENVIRONMENTAL SPECIFICATIONS

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Operating Temperature    | -20°C to 60°C (radio)<br>-10°C to 60°C (with battery) |
| Storage Temperature      | -40°C to 85°C                                         |
| Thermal Shock            | Per MIL-STD                                           |
| Humidity                 | Per MIL-STD                                           |
| Electrostatic Discharge  | Per MIL-STD                                           |
| Dust and Water Intrusion | IP67                                                  |
| Packaging Test           | Per MIL-STD                                           |



# LTE + Wi-Fi device specifications

## GENERAL SPECIFICATIONS

|                                                                |                                                    |
|----------------------------------------------------------------|----------------------------------------------------|
| Network                                                        | LTE, FDD: B2, B4, B5, B13, B66<br>2.4, 5 GHz Wi-Fi |
| Channel Capacity                                               | 96 Channels                                        |
| Contact List                                                   | 300 Contacts                                       |
| Dimensions                                                     | 3.2 x 1.9 x 0.7 in (82 x 48 x 18.7mm)              |
| Weight (with Embedded Battery)                                 | 2.7 oz (77 g)                                      |
| Battery Capacity                                               | 1260mAh                                            |
| Battery (Type Battery)<br>Operating Hours<br>5:5:90 Duty Cycle | 12 hours                                           |
| IP Rating                                                      | IP67                                               |
| Ports                                                          | USB Type-C (use for charging)<br>3.5mm audio jack  |
| Sensor                                                         | Accelerometer                                      |
| SIM                                                            | 1x 4FF Nano SIM                                    |
| Apps                                                           | Powered by WAVE PTX                                |
| Encryption                                                     | AES 256                                            |

## GNSS SPECIFICATIONS

|                               |                                          |
|-------------------------------|------------------------------------------|
| Constellation Support         | GPS, GLONASS, Galileo,<br>Beidou, A-GNSS |
| Time to First Fix, Cold Start | 60s                                      |
| Time to First Fix, Hot Start  | 10s                                      |
| Horizontal Accuracy           | 5m                                       |

## AUDIO SPECIFICATIONS

|                                                    |            |
|----------------------------------------------------|------------|
| Digital Vocoder Type                               | OPUS       |
| Audio Response                                     | +1, -3     |
| Audio Distortion at Rated Audio                    | <1%        |
| Maximum Speech<br>Loudness by Default <sup>1</sup> | 115 dB SPL |

## WIFI SPECIFICATIONS

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Frequency Range                | 2.4 GHz, 5 GHz                                     |
| Standards Supported            | 802.11 a, b, g, n, ac                              |
| Security Protocol<br>Supported | WPA2 (personal and enterprise),<br>WPA3 (personal) |
| Maximum Number of SSIDs        | 5                                                  |

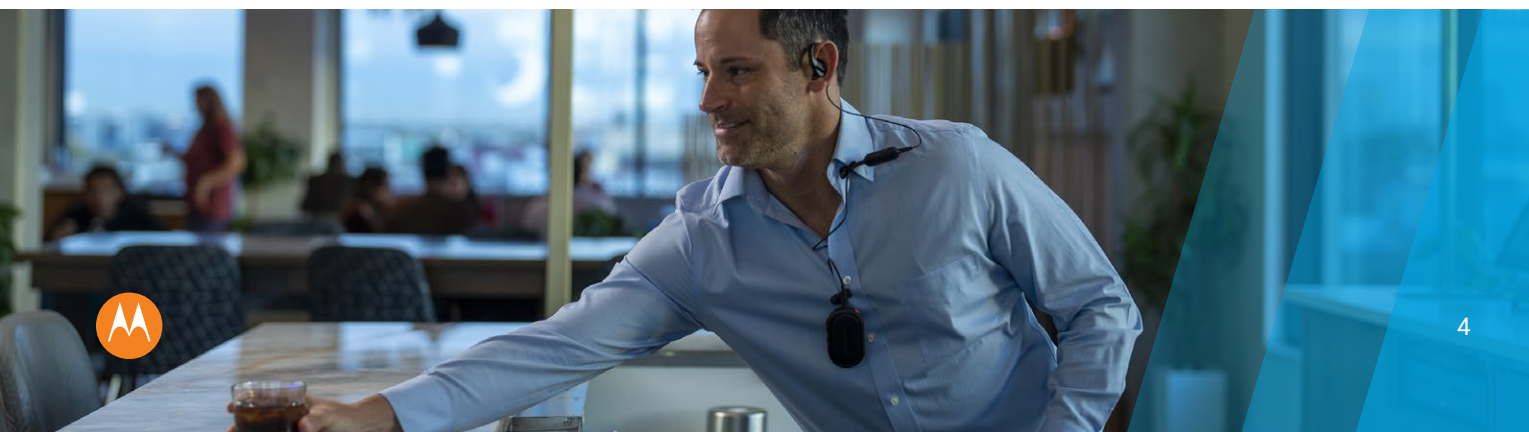
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|                               |                |
|-------------------------------|----------------|
| Version                       | 5.0 LE         |
| Range                         | 10m            |
| Supported Profiles            | HSP, SPP, GATT |
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## ENVIRONMENTAL SPECIFICATIONS

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Operating Temperature    | -20°C to 60°C (radio)<br>-10°C to 60°C (with battery) |
| Storage Temperature      | -40°C to 85°C                                         |
| Thermal Shock            | Per MIL-STD                                           |
| Humidity                 | Per MIL-STD                                           |
| Electrostatic Discharge  | Per MIL-STD                                           |
| Dust and Water Intrusion | IP67                                                  |
| Packaging Test           | Per MIL-STD                                           |

<sup>1</sup> Loudness performance based on TLK 25 paired with PMLN8536





| MILITARY STANDARDS (MIL-STD-810) |             |               |             |                  |              |                   |              |                  |              |                  |              |                  |
|----------------------------------|-------------|---------------|-------------|------------------|--------------|-------------------|--------------|------------------|--------------|------------------|--------------|------------------|
|                                  | MIL-STD810C |               | MIL-STD810D |                  | MIL-STD 810E |                   | MIL-STD 810F |                  | MIL-STD 810G |                  | MIL-STD 810H |                  |
|                                  | Method      | Procedure     | Method      | Procedure        | Method       | Procedure         | Method       | Procedure        | Method       | Procedure        | Method       | Procedure        |
| Low Pressure                     | 500.1       | I             | 500.2       | II               | 500.3        | II                | 500.4        | II               | 500.6        | II               | 500.6        | II               |
| High Temperature                 | 501.1       | I, II         | 501.2       | I/A1, II/A1      | 501.3        | I/A1, II/A1       | 501.4        | I/Hot, II/Hot    | 501.6        | I/A1, II/A1      | 501.7        | I/A1, II/A1      |
| Low Temperature                  | 502.1       | I             | 502.2       | I, II            | 502.3        | I, II             | 502.4        | I, II            | 502.6        | I, II            | 502.7        | I, II            |
| Temperature Shock                | 503.1       | I             | 503.2       | A1/C3            | 503.3        | A1/C3             | 503.4        | I                | 503.6        | I-C              | 503.7        | I-C              |
| Solar Radiation                  | 505.1       | II            | 505.2       | I/A1             | 505.3        | I/A1              | 505.4        | I/A1             | 505.6        | I/A1             | 505.7        | I/A1             |
| Rain                             | 506.1       | I, II         | 506.2       | I, II            | 506.3        | I, II             | 506.4        | I, III           | 506.6        | I, III           | 506.6        | I, III           |
| Humidity                         | 507.1       | II            | 507.2       | II               | 507.3        | II                | 507.4        | -                | 507.6        | II/Aggravated    | 507.6        | II/Aggravated    |
| Salt Fog                         | 509.1       | I             | 509.2       | I                | 509.3        | I                 | 509.4        | -                | 509.6        | -                | 509.7        | -                |
| Blowing Dust & Sand              | 510.1       | I/-           | 510.2       | I, II            | 510.3        | I, II             | 510.4        | I, II            | 510.6        | I, II            | 510.7        | I, II            |
| Vibration                        | 514.2       | VIII/CatF, XI | 514.3       | I/Cat10, II/Cat3 | 514.4        | I/Cat10, III/Cat3 | 514.5        | I/Cat24, II/Cat5 | 514.7        | I/Cat24, II/Cat5 | 514.8        | I/Cat24, II/Cat5 |
| Shock                            | 516.2       | I, II         | 516.3       | I, IV            | 516.4        | I, IV             | 516.5        | I, IV            | 516.7        | I, IV            | 516.8        | I, IV            |
| Contamination by Fluids          |             |               |             |                  |              |                   |              |                  | 504.2        | II               | 504.3        | 2.2.6b           |



# Wear your TLK 25 the way you want



**Badge clip: PMLN8538**

## High quality audio and operational experiences: TLK 25 earpiece

**PMLN8536**

Featuring PTT and voice assistant buttons, TLK 25's included compatible earpiece allows users to leave their device in their pocket while still performing key device functions. TLK 25 is also Bluetooth 5.0 LE compatible, giving users the ability to use Bluetooth earpieces or headphones while providing better range and connectivity, clearer listening and power efficiency.

**Holster: PMLN8537**

**USB-C charging cable: PMKN4294**

**Magnetic multi-unit charger (MUC): PMPN4660**

**Wall mount bracket for MUC: BR000638A01**

To learn more, visit: [www.motorolasolutions.com/tlk25](http://www.motorolasolutions.com/tlk25)



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