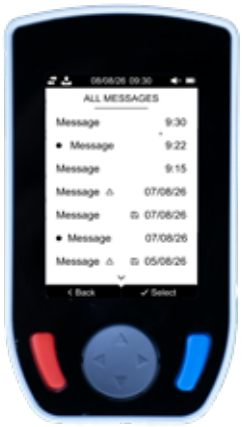
DATASHEET

MULTITONE EVOLVE™

INTRODUCING MULTITONE EVOLVE™

Multitone Evolve represents the next generation of secure, reliable messaging for healthcare and mission critical environments. It integrates paging and Wi-Fi communication with full message acknowledgement and audit ready traceability, ensuring reliable communication between healthcare professionals. Designed for healthcare environments, it supports both cloud first and on-premises deployment models.



TECHNICAL SPECIFICATIONS
Radio Performance (UHF)
Synthesised Radio
Frequency: 433 to 475MHz
Sensitivity (typical), best position average: ≥-99dBm
Channel spacing: 10 kHz / 12.5 kHz / 25 kHz
Wi-Fi Module
2.4 GHz Wi-Fi
IEEE 802.11 b/g/n (2.4 GHz Wi-Fi)
Security: WEP/WPA-PSK/WPA2-PSK
Network credentials: Wi-Fi SSID and password configured during installation, MQTT server IP defined by respective cloud//on-premises platform.
Typical transmit power: up to +20dBm (typical, 2.4 GHz band)
Operational
Code format: Multitone Mk7
Receiver addresses: 10
User profiles: 12, with up to 4 RIC addresses
Alerts: 8 Alert tones plus haptic, escalating alert and silent
Audible output (Speaker): ~85 to ~90 dB SPL at 30 cm (Day) / ~60dB SPL at 30cm (Night)
Characters: 120 characters per message, maximum of 10 messages with up to 1000 characters, auto delete after 10th message unless message archived
Message memory: Up to 15 messages at 120 characters (6.0 Kbytes)
Languages: English, French, German

evolve
TWO-WAY RELIABILITY

DATASHEET

MULTITONE EVOLVE™

Case & Display
High resolution E-Ink (176 x 264 pixels, 317 DPI) with auto front light, low light activation white LED
Anti-microbial case: Silver ion technology, ≥99% effective
White LED alert lamp
Weight: 150g
Dimensions: H 109.8mm x W 60.6mm x D 32.4mm
Clip and Lanyard (4Kg) breaking strain
Environmental Performance
IP57 dust and water resistant
High impact resistance
Operating temp: -10°C to +55°C
Storage temp: -20°C to +70°C
Charging temp: -0°C to +45°C
Battery & Charging
Embedded Li-ion rechargeable battery, 1940mAh, discharge rating: 3C (5.3 A)
Battery safety and protection: UL2054
Charge time: ~3 to 5 minute charge ~10/12-hours operation, 60 min charge: ~2 to 4 days idle
USB-C charging unit: (5V DC, 3A). 2m Cable, UK, EU
Low battery warning at 20, indicators are on-screen and modulated “buzz” tone alert, and haptic (vibrate) alert

STANDARDS & SAFETY APPROVALS

Device
ETSI EN 300 328, v2.2.2
RED (2014/53/EU)
EN 301 489-1 v2.2.3; EN 301 489-2 v2.1.1; EN 301 489-17 v3.2.5
EN 55032:2015 & EN 55035:2017
EN 50566:2017
IEC62368-1:2018 and UL/CSA 62368-1 3rd ed.
EN 60529:1991 + A1/2 / IEC 60529:1989+A1/2 Plus
EN 62262:2002 + A1 / IEC 62262:2002 + A1/IK06

Battery
IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021
EN 62133-2:2017, EN 62133-2:2017/A1:2021
UL62133
UN38.3
UL1642
UL2054

This datasheet is for guidance only. Products and services offered are subject to availability and may differ from those described or illustrated in this brochure as a result of changes. Specifications are subject to change without notice.

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