



MULTITONE EVOLVE™

**TWO-WAY MOBILE MESSAGING FOR MISSION-CRITICAL
COMMUNICATIONS**

MULTITONE EVOLVE™



RELIABLE, SECURE AND ALWAYS CONNECTED

Multitone Evolve™ Overview

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.

Healthcare Communication Challenges

Healthcare organisations require reliable communication systems that ensure message delivery, traceability, and operational resilience. Challenges include missed alerts, lack of delivery confirmation, system downtime, and communication delays. Multitone Evolve™ addresses these challenges with reliable delivery, acknowledgement, and secure messaging capabilities.

System Architecture & Key Features

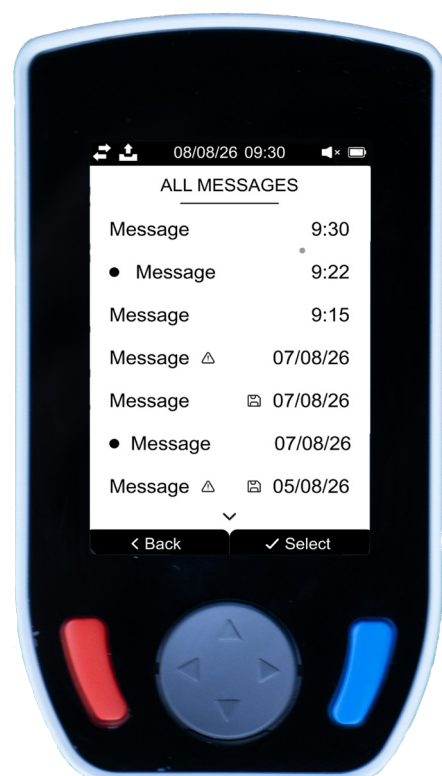
Multitone Evolve™ integrates with the Multitone Nucleus™ cloud platform and Multitone i-Message on-premises systems, supporting flexible deployment in accordance with organisational IT and governance requirements. Outbound messaging to devices is delivered via dedicated paging transmitter infrastructure, providing highly reliable, on-site coverage independent of the hospital IP network. Device acknowledgements, status updates and management communications are transmitted over the hospital Wi-Fi network, enabling real-time confirmation of message receipt and centralised monitoring.

This dual-path architecture ensures resilient operation by separating critical message delivery from IP network dependencies, while enabling secure MQTT-based communication for acknowledgement handling, device management, and over-the-air software and configuration updates. This approach supports operational continuity, reduces infrastructure risk, and enables efficient lifecycle management at scale.



Key Features and Operational Benefits

- Reliable messaging with acknowledgement
- Paging and Wi-Fi
- High contrast E-Ink display
- Rugged IP57 design
- Rapid charging battery
- Over-the-air software updates
- Group messaging and user profiles



WHY CHOOSE MULTITONE EVOLVE™?



Reliability and Resilience

Store and forward messaging responses ensures no acknowledgments are lost during connectivity interruptions. Paging fallback ensures continued communication during Wi-Fi outages. Full audit logging provides traceability and accountability.



Security and Compliance

Multitone Evolve™ supports secure communications compliant with NHS Cyber Essentials, GDPR, ISO 9001, and ISO 27001.



Deployment and Lifecycle

Supports cloud and on-premises deployment. Devices can be updated with over-the-air software updates and deployed across single or multi-site NHS trusts.



TECHNICAL SPECIFICATION

Technical Specifications
Frequency: 433 to 475 MHz
Sensitivity: ≥ -99 dBm
Channel spacing: 10 kHz / 12.5 kHz / 25 kHz
Adjacent channel rejection: ≥ 60 dB
Spurious emissions: < 2 nW
Connectivity
IEEE 802.11 b/g/n Wi-Fi
WPA/WPA2 security
Transmit power up to +20 dBm
Device and Physical Specifications
E-Ink display, 317 DPI
IP57 waterproof and dust resistant
Anti-microbial case
Weight: 150 g
Dimensions: 109.8 x 60.6 x 32.4 mm
Battery and Charging
1940 mAh Li-ion battery
3-to-5 minutes charge: up to 12 hours operation
Full charge: up to 4 days standby
USB-C charging and multi-device charging stations

Contact Multitone to arrange technical consultation, demonstration, or pilot deployment.

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