



DMC 3000™ Bluetooth® Module

Connectivity Module for DMC 3000 Dosimeter

Enhance your safety with connectivity



ADVANTAGES

- Seamless integration with all existing DMC 3000 dosimeters*
- Maintains current dosimeter form factor with modified battery cover
- Rugged, durable design
- Intuitive operation and device pairing
- Meets or exceeds applicable IEC and ANSI standards
- Connected with Mirion Ecosystem

FEATURES

- Bluetooth Low Energy compatible
- Near Field Communication (NFC) compatibility
- Low power optimized battery for long battery life
- No additional power supply
- Excellent Electromagnetic Compatibility (EMC) immunity
- Waterproof IP67 (1 m, 1 hour)

*Compatible with dosimeter firmware V7.8.6

DESCRIPTION

Designed to enable connectivity and enhance user safety, the Bluetooth module allows for the pairing of the DMC 3000 dosimeter to other devices and the transmission of dosimeter data to a telemetry network.

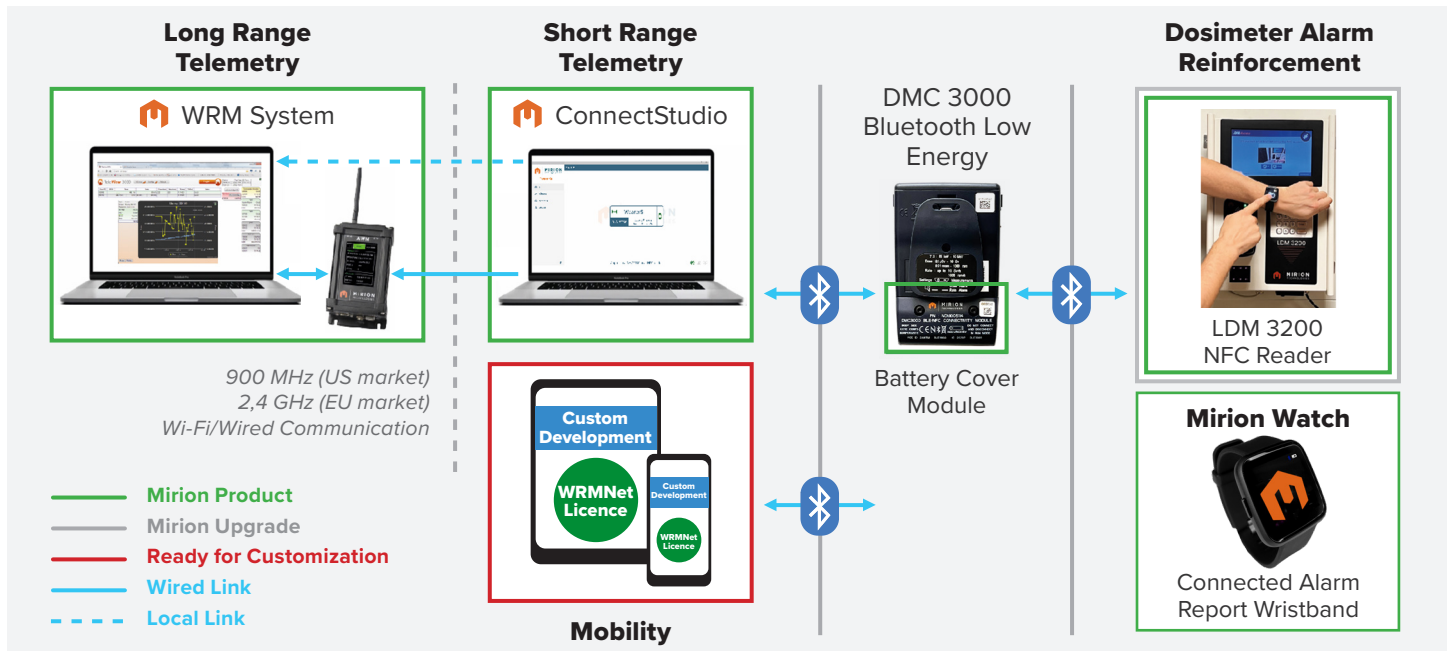
With the introduction of the Bluetooth module, Mirion Technologies is also pleased to release the MirionWatch™ device for improved alarm reporting and ConnectStudio™ software for efficient network management.

See back for an overview on how these solutions work together, and respective data sheets for additional detail.

RELATED PRODUCTS

- DMC 3000 Dosimeter
- MirionWatch Device
- Mirion ConnectStudio Software
- Mirion WRM Network Telemetry
- DMCUser™ / DosiServ™ Software
- AWM™ Adaptive Wireless Monitor
- TelemetryStudio / TeleView 3000 Software / Orion™ Real-Time Location System
- LDM 3200™ NFC Reader / LDMAccess

New Mirion Connected Ecosystem



SHORT RANGE TELEMETRY

Transmit power output and sensitivity:

Power output

- **Sensitivity:** -106 dBm (2.4 GHz)
- **Frequencies:** 2.4 GHz
- **Transmission interval:** Adjustable 1 or 4 seconds
- **Transmission range:** (20-25 m) line of sight

Meets the EPRI Low power guideline of <4 V/m at 1 ft

PERFORMANCE

Bluetooth standard compliant

NFC standard compliant

CE: standard compliant

FCC certification number: 2AWTM-BLE3000

IC certification number: 26297-BLE3000

COMPATIBILITY WITH BLUETOOTH LOW ENERGY ECOSYSTEM

- DMC 3000 firmware V7.8.6 or higher
- Mirion ConnectStudio software (V1.2)
- MirionWatch device
- Mirion WRM protocol (WRM2/3)
- AWM (firmware V8.0.0 or higher)
- DosiServ 2023 and LDM Access (V2.0)
- LDM 3200 NFC reader

COMPATIBILITY WITH IoT

- WRMNet library (WRM3)
- Bluetooth protocol (V4.2)
- NFC Standard

ELECTRICAL CHARACTERISTICS

Internal power: AAA alkaline battery

Battery life: six months (4 s interval; normal use, 0.1% alarm)

MECHANICAL CHARACTERISTICS

Rugged, high impact polycarbonate-ABS case.

Dimensions (DMC 3000 + Bluetooth module):

- 60 x 88 x 21 mm (2.4 x 3.5 x 1.1 in.) with standard clip

- 86 x 56 x 21 mm (2.2 x 3.4 x 0.8 in.) without clip

Weight (Bluetooth module + dosimeter with alkaline batteries and a standard clip): <92.2 g (3.24 oz)

Weight (Bluetooth module alone): 9 g (0.31 oz)

ENVIRONMENTAL CHARACTERISTICS

Temperature range: -10 °C to 50 °C (14 °F to 122 °F) / 0 °C to 50 °C (32 °F to 122 °F) for the telemetry function

Relative humidity: <90% at 42 °C (108 °F)

Storage: -20 °C to 71 °C (-4 °F to 160 °F) without battery

Shock, vibration and drop resistant

Waterproof: IP67 1 m (39 in.) for 1 hour

EMC: complies with and exceeds standards by a large margin

(CE compliant, refer to chapter §6.1 EU declaration of conformity)

- MIL STD 461 RS 103 (pulsed electric field): exceeds 200 V/m from 80 MHz to 5 GHz
- MIL STD 461 RS 101 (magnetic field 30 Hz to 100 kHz): norm of the regulation +6dB
- ETSI 301-489 -1 and 17 electromagnetic compatibility (EMC) for radio equipment
- ETSI 301-328 (harmonized European standard for access to radioelectric spectrum)