

GEM3 Module

BLUETOOTH 5.0 AND ANT+
CONNECTIVITY FOR SPORTS
AND FITNESS APPLICATIONS



The North Pole Engineering GEM3 Module is a fully integrated Bluetooth and ANT+ wireless module solution designed for easy integration into fitness equipment and other sports fitness related applications. The North Pole Engineering GEM3 carries module certification in all major markets and is also Bluetooth and ANT qualified. The GEM3 module incorporates North Pole Engineering's software for data exchange between the GEM3 module and fitness equipment console. The GEM3 is a completely open platform support Bluetooth FTMS and ANT FE-C allowing developers to easily integrate fitness equipment workout data into their mobile applications whether for iOS, Android, or PCs.

MAIN FEATURES:

DUAL TECHNOLOGY for both mobile app and group fitness system connectivity
STANDARD PROFILES for enable standardized connections and data exchange between fitness equipment and applications
RF CERTIFICATIONS allows for broad use across most geographies
LONG RANGE Mode enabling better connectivity in challenging RF environments
1MB/2MB MODEs for higher throughput applications
USB OR UART HOST interfaces for more flexible host CPU connections
SOFTWARE SDK allows for on-module customer applications

SPECS:

Bluetooth Specification: 5.0
FLASH: 1MB
Frequency: 2.402-2.480GHz
Transmit Power Level: -20 to +8dB
Temperature Range: -40° to +85°C
Supply Voltage Range: 1.7V to 5.5V
Recommended Supply Voltage: 3.0V
Receive sensitivity in ANT mode: -90dBm
Receive sensitivity in Bluetooth LE mode: -103dBm
Maximum Receive Current at 0dBm: 6.26mA
Maximum Transmit Current at 0dBm: 6.4mA
Host Protocol: GEMHCI or GEMSAFE
FW Upgradeability: Over the air, USB, or JTAG

EXAMPLE APPLICATIONS COMPATIBLE WITH GEM3

FI+ME+RIX
by MINDBODY.

HEART ZONES

Performance IQ

