Designed with group fitness in mind, G.FIT is a turn-key solution featuring ANT+ and Bluetooth® low energy connectivity, reference code and an embedded fitness equipment library.

With advanced capabilities for group connectivity, such as the ability to support 50+ concurrent devices in highly congested RF environments, G.FIT is the technology fitness equipment manufacturers need to drive sales and maintain a competitive advantage.

Including modules and an SDK, the G.FIT solution features:

- Enhanced coexistence for group and class use cases
- ANT+ Heart Rate & FE-C device profile support
- Bluetooth® low energy Heart Rate Profile & Service; Fitness Machine Service
- Preloaded G.FIT Network Processor application with serial API
- Field upgrades via serial or wireless connection
- RSSI and list-based sensor pairing
- Custom G.FIT application support using the G.FIT Library and SDK

The G.FIT SDK includes the G.FIT embedded library, a reference application, console simulator for Windows and sample applications for iOS and Garmin Connect IQ.
1. Connect to the pre-loaded G.FIT Network Processor Application from an existing fitness equipment controller (MCU) via serial API.

2. Create a single-controller solution by building a custom fitness equipment controller application incorporating G.FIT features using the G.FIT SDK.

**IMPLEMENTATION OPTIONS**

**FITNESS EQUIPMENT CONSOLE**

**FITNESS EQUIPMENT CONTROLLER**

**SERIAL INTERFACE**

**MODULES**

**COMMON FEATURES**

- **Custom app Support**
- **Pairing**
- **NFC Compatible**
- **Serial Connection**
- **ANT**
- **ANT+ HR**
- **ANT+ FE-C**
- **ANT+ FIT**
- **Cust. ANT Channels**
- **BLUETOOTH® LOW ENERGY**
- **BLE HR Central / Peripheral**
- **BLE Fit Machine Svc.**
- **Custom BLE Svc.**
- **CHARACTERISTICS**
- **EM HRM**
- **Field Upgradable*”
- **Data burst rate (bps)**
- **Data encryption**
- **Max. Tx power (dBm)**
- **Supply Voltage (V)**
- **Mounting**

**MODELS**

- **D52QGFM4IA**
- **D52QGFM4IA-A**
- **D52MGFM8IA**
- **FIT2**
- **FIT1e**

**G.FIT SDK**

The G.FIT SDK includes components that allow fitness equipment manufacturers and gyms to tailor the experience they want with their gym equipment.

- **G.FIT embedded library**
- **G.FIT FE controller reference code**
- **FE console simulation tool for Windows**
- **Sample peripheral applications for Garmin Connect IQ & iOS**

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*Using serial or wireless connection