



## A NEW ERA OF FITNESS MODULES

Designed with group fitness in mind, G.FIT is a turn-key solution featuring ANT+ and *Bluetooth*® low energy technology, 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.

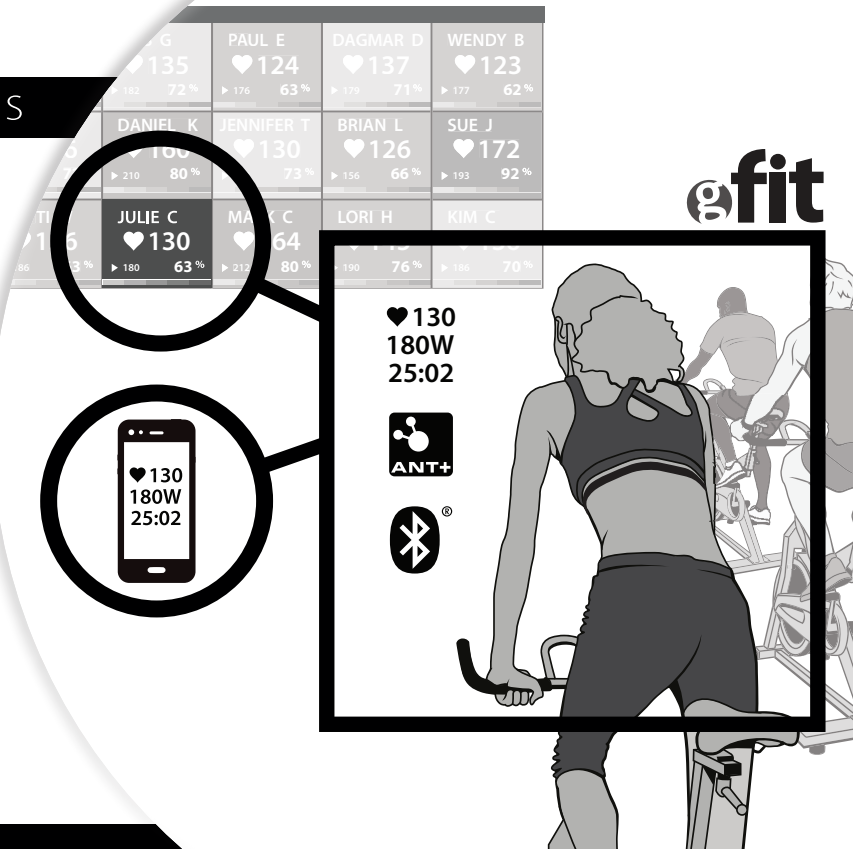
Including modules and an SDK, the G.FIT solution features:

- 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.

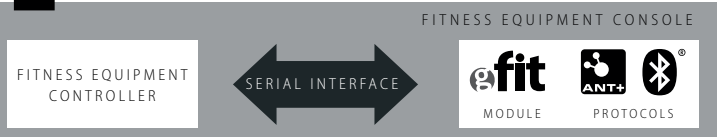


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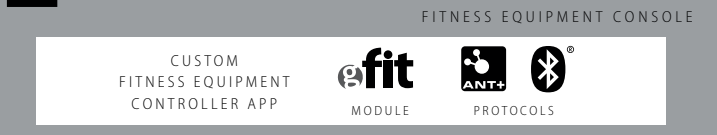


## IMPLEMENTATION OPTIONS

- 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



## 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

## MODULES



## FITNESS EQUIPMENT MODULE FEATURES

SERIES	G.FIT	FIT2	FIT1e			
Custom app Support	•					
Serial Connection	•	•	•			
Pairing	List, RSSI based proximity	RSSI based proximity	AGC based proximity			
NFC Compatible	•					
<b>ANT</b>						
ANT+ HR	•	•	•			
ANT+ FE-C	•					
ANT+ FIT		•	•			
Cust. ANT Channels	Up to 9	4	2			
<b>BLUETOOTH® LOW ENERGY</b>						
BLE HR Central / Peripheral	•					
BLE Fit Machine Svc.	•					
Custom BLE Svc.	•					
<b>CHARACTERISTICS</b>						
EM HRM			•			
Field Upgradable*	•					
Data burst rate (bps)	Up to 60k	Up to 20k	Up to 20k			
Data encryption	AES-128					
Max. Tx power (dBm)	4	4	0			
Supply Voltage (V)	1.7-3.6	2.0-3.6	3.0-10.0			
Mounting	SMT pins & LGA pads	SMT Pins	Connector			
<b>MODELS</b>		<b>D52QGFM4IA</b>	<b>D52QGFM4IA-A</b>	<b>D52MGFM8IA</b>	<b>FIT2</b>	<b>FIT1e</b>
Size (mm)		20x20x2.8	20x20x2.8	14x9.8x2.0	20x20x2.6	20x33x7.0
GPIO		Up to 30	Up to 24	Up to 24		
Analog IO		8	8	8		
3-axis MEMS accelerometer			•			

\*Using serial or wireless connection

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