



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 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.

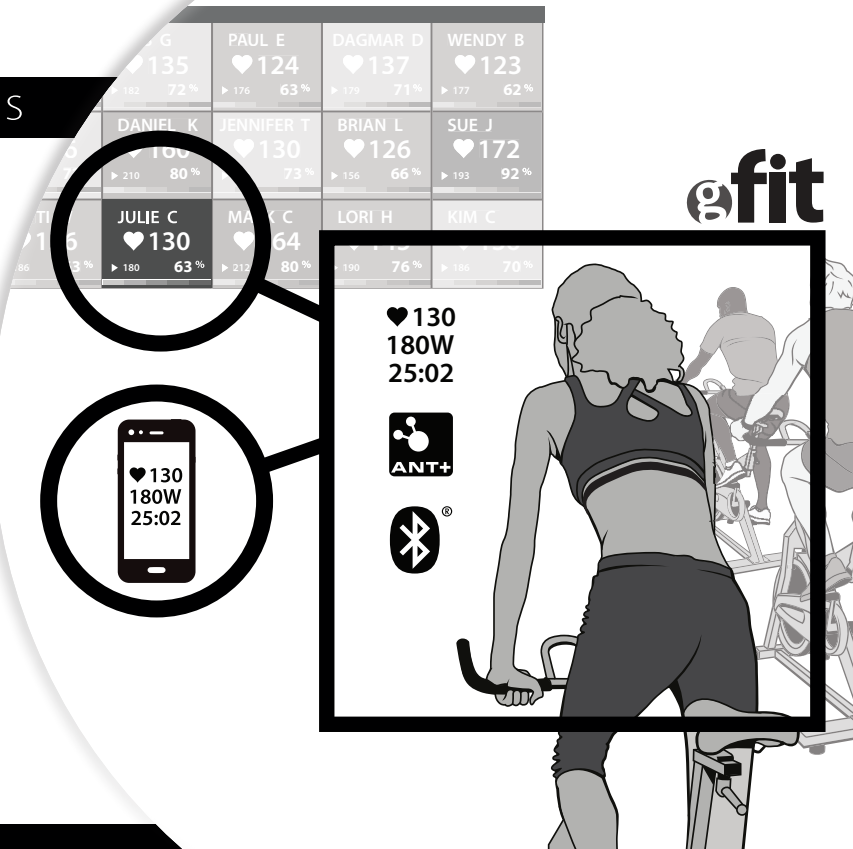
Including modules and an SDK, the G.FIT solution features:

- 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.

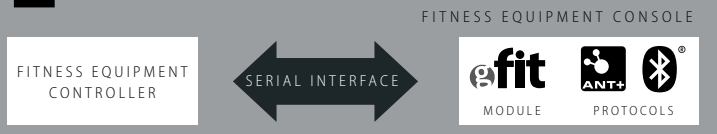


SALES@DYNASTREAM.COM
DYNASTREAM.COM/GFIT



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	✓				
ANT					
ANT+ HR	✓	✓	✓		
ANT+ FE-C	✓				
ANT+ FIT		✓	✓		
Cust. ANT Channels	Up to 9	4	2		
BLUETOOTH® LOW ENERGY					
BLE HR Central / Peripheral	✓				
BLE Fit Machine Svc.	✓				
Custom BLE Svc.	✓				
CHARACTERISTICS					
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		
MODELS	D52QGFM4IA	D52QGFM4IA-A	D52MGFM8IA	FIT2	FIT1e
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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