



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 in highly congested RF environments, G.FIT is the technology fitness equipment manufacturers need to drive sales and maintain a competitive advantage.

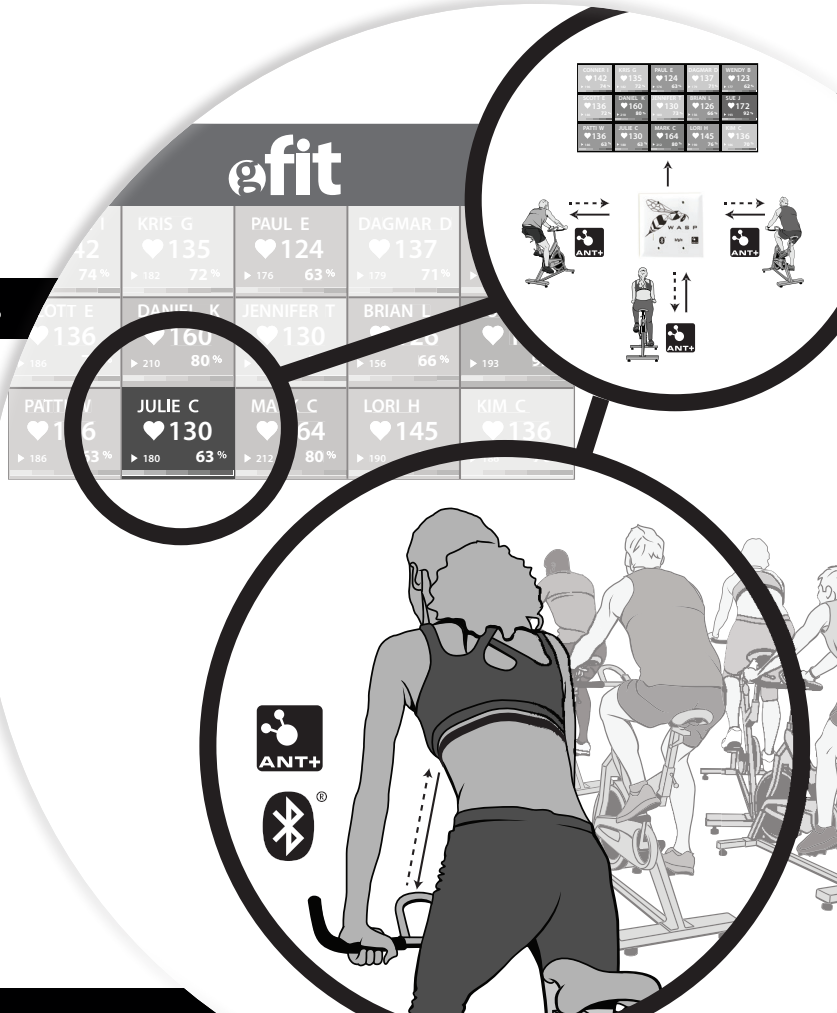
Including modules and an SDK, the G.FIT solution features:

- Enhanced capabilities for group and class use cases
- ANT+ Heart Rate & FE-C device profile support
- Bluetooth Low Energy Heart Rate (Central & Peripheral) & Fitness Machine Service
- Custom ANT Channel & BLE service
- Field upgradeable via serial port or wireless connection
- Enhanced RSSI assisted sensor pairing
- Extend to NFC tag & club card support

The G.FIT SDK includes an embedded library, FE controller reference code, a console simulator for Windows and sample peripheral applications for iOS, Android and Garmin Connect IQ.



SALES@DYNASTREAM.COM
DYNASTREAM.COM/G.FIT



IMPLEMENTATION OPTIONS

- 1** Connect to the pre-loaded G.FIT Fitness Application from a fitness equipment controller via UART or SPI



- 2** Build a custom fitness equipment controller app using the G.FIT SDK and the G.FIT module as the controller



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 & Android

MODULES



Development Module
D52QF3M6IA-A



20x20mm Module
D52QF3M4IA,
D52QF3M4IA-A



14x9.8mm Module
D52MF3M8IA

FEATURES

SERIES	G.FIT	FIT2	FIT1e		
Custom app Support	•				
Serial Connection	•	•	•		
Pairing	RSSI based proximity	RSSI based proximity	AGC based proximity		
NFC Compatible	•				
ANT					
ANT+ HR	•	•	•		
ANT+ FE-C	•				
ANT+ FIT		•	•		
Cust. ANT Channels	Up to 12	4	2		
BLUETOOTH® LOW ENERGY					
BLE HR Central / Peripheral	•				
BLE Fit Machine Svc.	•				
Custom BLE Svc.	•				
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		
UART/SPI	•	•	UART only		
MODELS					
	D52QF3M4IA	D52QF3M4IA-A	D52MF3M8IA	FIT2	FIT1e
Size (mm)	20x20x2.8	20x20x2.8	14x9.8x2.0	20x20x2.6	20x33x7.0
GPIO	30	24	24		
Analog IO	8	8	8		
3-axis MEMS accelerometer		•			

*Using wired or wireless connection



SALES@DYNASTREAM.COM
DYNASTREAM.COM/G.FIT