



SOLLATEK DATA SHEET NO:

10910481

SOLLATEK FFX RANGE

ADVANCED COMMUNICATION EXTENDER PORT FOR SOLLATEK ADVANCED REFRIGERATION CONTROLLERS





Plug-in Modules:















Description

The Sollatek FFX range is a fully customisable expansion port which provides advanced communication technology and location tracking to Sollatek's range of Energy Management Temperature Controllers.

They allow high flexibility with a range of plug-in modules as well as offering easy in-field upgrading meaning solutions can be tailored to match different applications as and when required.

Internal BLE allows proximity marketing (nearby customer engagement) as well as field sales/technicians to access the cooler remotely via the dedicate mobile application, so they are able to review all health, performance and diagnostic data.

The FFX range, when fitted with a communication module, are built to transmit the data captured to the Sollatek Web User Interface using secure VPN channel and data encryption.

The FFXy-BB is a smaller version of the FFX-BB accommodating 4 slots while the FFX-BB can accommodate 6 slots.



Feature

- A proximity solution providing data analytics and remote configuration BLE, transmission and controller settings
- Fully customisable and expandable with Always-on and tracking plug-in modules to suit all applications
- Hardware upgradeable in the field without the need for a technician by plugging in new modules
- Internal Bluetooth Transmits iBeacon and Eddystone beacons to allow nearby customer engagement
- Planogram and purity compliance application possible through a digital camera connecting via BLE
- On-board rechargeable battery to enable Real Time Clock (RTC) and BLE beaconing with no mains power
- Automatic power switching between mains and battery
- Internal flash memory for storing controller data between transmissions
- Connects to Sollatek FFA/JEA controllers
- Compatibility options for third party controllers
- Easily retrofitted to Sollatek controllers via a connecting cable
- Discreetly fits in the front grill of a cooler
- Front panel available in various colours to match refrigerator aesthetics
- IP65 front for wash resistance
- Reprogrammable via the Sollatek App

Plug-in Modules*

Quad Communication & Battery Module

• 2G • LTE-M • NB-IoT • LoRa

Double Battery Module

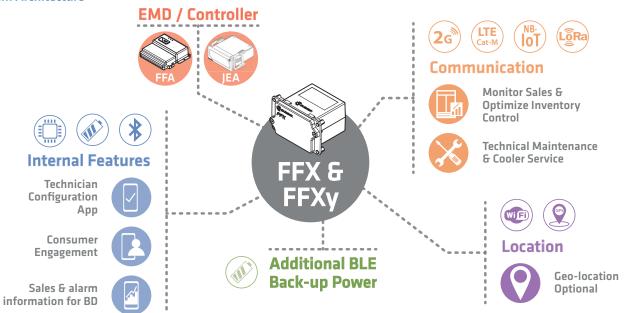
Rechargeable battery

* Refer to the plug-in module section for more information and specification

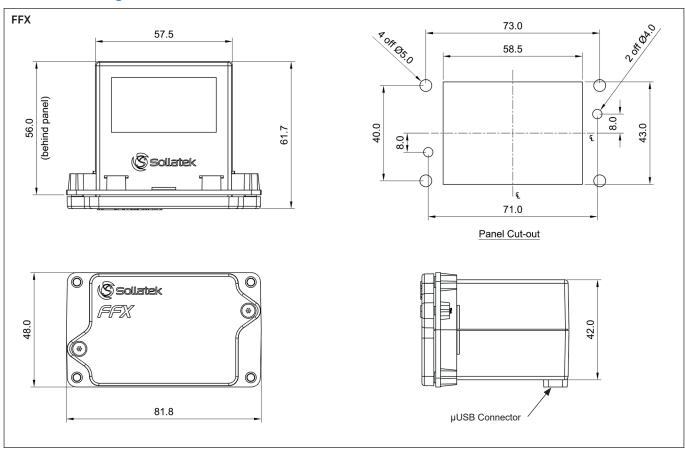
Technical Specification

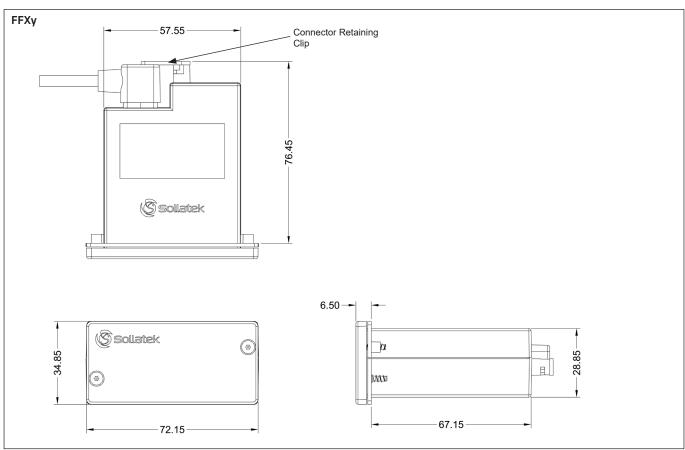
•				
	FF>	K-BB	FFX	y-BB
Power				
Nominal Voltage	Powered from Host Device			
Bluetooth				
Type/version		BLE	5.1	
RF Power Output		-20 dBm t	:o +4 dBm	
Frequency		2.4 GH	łz ISM	
Connectivity	Eddystone,	iBeacon & connection to t	he Sollatek Smart Device	Application
Bluetooth Standard		IEEE 8	02.15.1	
Memory				
Size		32 Mb for data/image stor	ring between transmissio	n
Back-up Battery				
Battery Type		Rechargeable L	ithium Polymer	
Nominal Voltage		3	V	
Capacity		1001	mAH	
Typical Run Time	Aŗ	prox. 2-3 months depend	ing on transmission inter	rval
Plug-in Module Capacity				
Number of Shelves		3		2
Number of Slots		6		4
Connector / Interface				
To Host Device		Micro US	B-B port	
To Modules	2x4-way Terminal per slot			
Certification / Standards				
Product Certification	CE, IEC	60730, EN 301 489-1, EN 3	301 489-17, EN 55024, EN	300 328
Flammability		UL94 V-0 @ 1.5mm, GWF	FI = 960°C, GWIT = 850°C	
Environmental				
IP Rating		Front	: IP65	
		Rear:	IP54	
Operating Temperature		0°C to +60°C (3	32°F to +140°F)	
Operating Humidity		<90% RH nor	n-condensing	
Mechanical				
Panel Mounting	4 x Torx-pir	1 T10 screws	2 x Torx-pir	1 T10 screws
FFX Font Cover		2 x Torx-pin	T10 screws	
Unit Dimensions (W x H x D)	81.8 x 48.0	81.8 x 48.0 x 61.7 mm		5 x 82.95 mm
Unit weight	62 g (without Modules)		46.5 g (with	out Modules)
Packing & Shipping				
3	Carton	Pallet	Carton	Pallet
5	Carton 100 units	Pallet 2000 units (20 cartons)	Carton 115 units	Pallet 2300 units (20 cartons)
Packing & Shipping		1 1 1		1 11

System Architecture



Dimensional Drawing





Product Code	Description
92363XBB	FFX-BB Expander Port + BLE and Battery
92363XBB-Y	FFXy-BB Expander Port + BLE and Battery

PLUG-IN MODULES

2G Communication Module



- 2G communication technology
- Integrated battery for controller data transmission with no mains supply
- 2-3 months battery autonomy with 1 daily transmission
- Optional integrated Wi-Fi for precise geo-location
- Accelerometer for movement detection
- SIM Card: Nano or Solderable

Band	850, 900, 1800, 1900	
Battery	800 mAh Rechargeable Lithium polymer	
Wi-Fi	2.4 GHz	
Shelf	162	

Stock Code	Description
92363X00-M2B	FFX-M2B Module 2G+Batt
92363X00-M2BW	FFX-M2BW Module 2G+Batt+Wi-Fi

LTE-M Connectivity Module



- LTE-M communication technology with 2G fall back
- Integrated battery for transmission with no mains supply
- 3 months battery autonomy with 1 daily transmission
- Optional integrated Wi-Fi for precise geo-location
- Accelerometer for movement detection
- SIM Card: Nano or Solderable

	Band	B1, B2, B3, B4, B5, B8, B12,B13, B18, B19,
		B20, B25, B26, B27, B28, B66, B85
	Battery	800 mAh Rechargeable Lithium polymer
	Wi-Fi	2.4 GHz
Ī	Shelf	1 & 2

Stock Code	Description
92363X00-M4B	FFX-M4B Module Cat-M+Batt
92363X00-M4BW	FFX-M4BW Module Cat-M+Batt+Wi-Fi

NB-IoT Connectivity Module



- NB-IoT communication technology with 2G fall back
- Integrated battery for transmission with no mains supply
- 3 months battery autonomy with 1 daily transmission
- Optional integrated Wi-Fi and / or GPS for precise location
- Accelerometer for movement detection
- SIM Card: Nano or Solderable

Band	B1, B2, B3, B4, B5, B8, B12,B13, B18, B19, B20, B25, B28, B66, B71, B85
	020, 023, 026, 000, 071, 063
Battery	800 mAh Rechargeable Lithium polymer
Wi-Fi	2.4 GHz
Shelf	162

Stock Code	Description
92363X00-MNB	FFX-MNB Module NB-IoT+Batt
92363X00-MNBW	FFX-MNBW Module NB-IoT+Batt Wi-Fi
92363X00-MNGB	FFX-MNBW Module NB-IoT+GPS+Batt
92363X00-MNGBW	FFX-MNGBW Module NB-IoT+GPS+Batt+ Wi-Fi

Battery Module

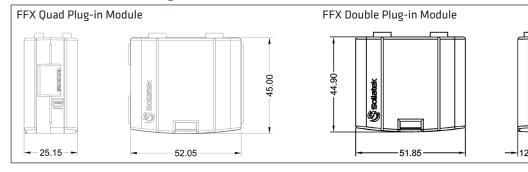


- · 800 mAh rechargeable battery
- Bluetooth beaconing and RTC with no mains supply
- Automatic power switch from mains to battery module

Battery Type	Lithium Ion - rechargeable
Nominal Voltage	3.7 V
Capacity	800 mAh
Typical Run Time	Approx. 2 years (low power mode)
Shelf	2

Stock Code	Description
92363X00-MB8	FFX-MB8 Battery Module 800mAh

Module Dimensional Drawing





LoRa Under Development - Coming Soon

