FlatMesh™

Product Data Sheet: FlatMesh RS232 Gateway

The FlatMesh RS232 Gateway provides all the functionality required to operate a FlatMesh wireless sensor network in conjunction with a PC.

Combine with the FlatMesh Data Logger software for simple text file logging for local deployments without the need for access to the internet.

Key features

- On-board industrial-grade flash memory card for data buffering and backup

- Wide input voltage range

- DIN Rail mountable for easy fixing

- Firmware is upgradeable over RS232

FlatMesh RS232 Gateway

Physical Specifications

Parameter	Value
Dimensions	125 x 66 x 41 mm
Total Mass	0.35 kg (approx.)
Housing Material	Die cast aluminium enclosure
Mounting Options	35 mm DIN rail
Operating Temperature Range	-40°C to +85°C

FlatMesh Radio Specifications

Parameter	Value
Communication Type	Proprietary FlatMesh v3 Mesh Networking Protocols IEEE 802.15.4 compliant
Frequency Band	2400 – 2485 MHz ISM Band
Maximum Transmit Power	6.2 dBm (EN 300 328 v1.8.1)
Maximum Permitted Antenna Gain	4 dBi
Range	Up to 300 m depending on the environment and fitted antenna Consult with Senceive for your application
Maximum Network Size	Typically up to 100 nodes Consult with Senceive to determine optimal system configuration
RF Module	Senceive FM3Gateway

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RS232 Interface

Parameter	Value
Standard	EIA-232
Connector Type	D-sub 9-way Female DCE
Baud Rate	115200 bps
Frame Configuration	8 data bits, no parity, 1 stop bit
Flow Control	RTS/CTS

Power Supply

Parameter	Value
Input Voltage	9 –28 VDC
Current	200 mA max.

Certifications

- Tested to conformity with all the essential requirements of the Radio Equipment Directive 2014/53/EU and RoHS Directive 2011/65/EU

- Network Rail Acceptance PA05/04146

- London Underground Approved

FlatMesh RS232 Gateway

Ordering Information and Accessories

Model	Description
FM3G-RS232	**FlatMesh 3 RS232 Gateway**
FA-FM-ADJ	**Adjustable angle antenna** Flexible installation, perfect for use in tunnels and indoor environments Maximum gain +2 dBi
FA-FM-WPS	**Waterproof straight antenna** Maximum gain +1.1 dBi