



# TECHNICAL SPECIFICATIONS



## LoRaWAN ARF8230FA-B01 | Sigfox ARF8230GA-B01

### Mechanical specifications

Weight	70 g (battery included)
Dimensions	105 x 50 x 27 mm
Enclosure	IP67, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Mounting	DIN Rail, Tube, Wall, Collar

### Operating conditions

Temperature	-25°C / +70°C
Humidity	0 to 85% RH (non-condensing)

### Device Power Supply

Battery Type	1 soldered battery
Expected Battery Life	For 1 index per hour and 1 transmission every 4 hours (6 frames/day), 10,000 pulses and Pull-Up activated: Sigfox: 4.7 years   LoRaWAN SF12: 9.3 years   LoRaWAN SF7: >10 years

### Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
Configuration and firmware update from the air	KARE+ compatible (only with LoRaWAN)
Security	PIN/PUK Code protection

### Radio/Wireless

Supported regions	LoRaWAN EU863-870 / Sigfox RC1
Wireless Security	AES-128 data encryption (LoRaWAN only)
Class	LoRaWAN: Class A   Sigfox: Class 0
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	14 dBm
Sensitivity	-132 dBm LoRaWAN @SF12   <-122 dBm Sigfox

### Regulations and certifications

Standard	Directive 2014/53/UE (RED)
ATEX	2014/34/UE ATEX II 2 G D Ex ib IIC T4 Gb Ex ib IIIC T135°C Db -20°C < Tamb < +40°C Uo ≤ 3.9V; Io ≤ 6.1mA; Po ≤ 6mW; Co ≤ 440µF; Lo ≤ 930mH Ui ≤ 15V; Ii ≤ 1000mA; Pi ≤ 3750mW; Ci = 0µF; Li = 0.13mH

### BINDER CONNECTOR

Product equipped with a connectorised cord	
Cable length	0.70 meters
ConnectOr	6 point angled female BINDER type M16 IP67 reference 99 5122 75 06

