

packetAIR

packetAIR is an IoT environmental monitoring device designed to gather data for both indoor and outdoor. It contains various which monitor temperature, humidity, air quality, gas concentration, dust, barometric pressure and altitude.

It is LoRaWAN® enabled and connected online 24/7 via packetNET. Users can view, monitor, log data and generate reports via packetVIEW software. Analysis of environmental readings can be done by exporting historical logs on specific time stamps.

packetAIR is battery powered for easy installation and optimized to operate at low power consumption to reduce carbon footprint to the environment. It has on-board GPS that allows location mapping for easy maintenance and servicing. Periodic check is needed on vents for possible contaminations and blockage.



Features

- LoRaWAN® compatible
- Easy installation and maintenance
- GPS enabled
- IoT Enabled via packetNET and packetVIEW
- Send location of the device once a day
- Data sent over the air are encrypted (AES 128)
- Battery powered
- 5 Sensors On-board
 - Temperature
 - Humidity
 - VOC
 - Particulate Matter
 - CO2

Applications

- Air Quality Monitoring
- Smart City Environmental Sensing
- Pollution Control
- Weather Stations

Technical Specification

LoRa

Device	S76S
Integrated MCU	STM32L073xZ
Integrated RF IC	SX1276

RF

Frequency	868Mhz or 915Mhz
Antenna	Internal
Modulation	LoRa
Range	Up to 15k
RF Power	+25dBm +10dBm

Electrical

Operating Voltage Levels	3.2v to 4.7v
Power Source	Battery
Battery Type	1S 6P LiFePo

Sensors

Temperature	Measurement Range	-40 to 125°C
	Accuracy	±0.3C
Relative Humidity	Measurement Range	0-100%
	Accuracy	±3.5% RH (@15%-80% RH)
VOC	Range	0-1'000ppm
	Accuracy	Repeatability: 95% VOC index points
Particulate Matter (PM2.5)	Sensitivity	0.3-1.0µm 1.0-2.5µm 2.5-10µm
CO2 (Carbon Dioxide)	Range	0-5000ppm
	Accuracy	± (50ppm+5% of reading)

Certifications

Environmental Qualifications	ROHS
Safety	IEC 60950
EMC	EN55022

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