

PRO Plus LTE Base Station

An environmental monitoring solution that acts as a gateway, data storage, and web server. Receives sensor measurements from Aranet PRO series devices using Aranet Sub-GHz ISM band radio. Features rugged IP67 casing for outdoor use and PoE power input for ease of commissioning. Additionally, 4G LTE connectivity enables usage in areas lacking local internet access.



Product numbers

Radio band	Sensors
EU868	TDSB0B03
US920	TDSB0BU3
AS923	TDSB0BC3
JP923	Not available
KR923	Not available

- EU868 is intended to be used in the European Union; US920 in United States of America, Canada, South America; AS923 in Brunei, Cambodia, Hong Kong, Indonesia, Laos, Taiwan, Thailand, Vietnam; JP923 in Japan, Malaysia, Singapore; KR923 in South Korea.
- Upgrade licenses for optional sensor quantities “12 to 50”, “12 to 100”, and “50 to 100”, are available.

Aranet radio bands and channels

Radio band	Channel 1	Channel 2	Channel 3	Channel 4
EU868	868.1 MHz	868.3 MHz	868.5 MHz	—
US920	917.3 and 922.9 MHz	917.5 and 923.1 MHz	917.7 and 923.3 MHz	917.9 and 923.5 MHz
AS923	923.1 MHz	923.3 MHz	—	—
JP923	923.0 MHz	923.4 MHz	—	—
KR923	923.1 MHz	923.3 MHz	—	—

- This table outlines the radio channels utilized by Aranet Sub-GHz radio technology for transmitting sensor data to the base station, complying with the legislation in various regions. To determine availability of this product in your region and the corresponding channels used, refer to the “Product numbers” table located at the beginning of this document.

Connectivity

Receiver sensitivity	-127 dBm
Ports	RJ45 with PoE 802.3af power input
Communication	Ethernet, Wi-Fi 2.4 GHz access point or client mode, 4G LTE
Data protection methods	XXTEA, HTTPS, password-protected user accounts

Highlighted features




Local data storage	10-years measurement data for 100 sensors
Integrations	MQTT, Modbus TCP/IP, BACnet IP
User Interface languages	English, French, Spanish, Italian, Portuguese, Nederland, German, Russian, Latvian

- Additional licenses are required to use listed integrations.

General specifications

Power	802.3af PoE	
Power consumption	4.7 W	
Ingress protection rating	IP67	
Operating temperature range	-40 – 60 °C	-40 – 140 °F
Operating relative humidity range	0 – 90 %	
Dimensions	180×120×45 mm	7.09×4.72×1.77 in
Weight	425 g	15 oz
Enclosure material	Polycarbonate	

Compliance information

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|---|---|
|  | Conformité Européenne |
|  | Federal Communications Commission (USA) |
|  | Innovation, Science and Economic Development Canada |
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