

LoRa® Gateways

Long-range wireless protocol
covering large sites

End-to-end connectivity for your OCEAView™ platform and LoRaWAN®-enabled data loggers

Our wireless gateways offer exceptionally long-range wireless communication for your LoRaWAN-enabled data loggers, making it easy to deploy the OCEAView solution across large sites⁽¹⁾. These access points give you the full benefit of the LoRaWAN protocol to provide in-building penetration and connectivity for your data loggers.

- Collects and forwards data between compatible LoRaWAN equipped data loggers and the OCEAView Cloud or on-premises server
- Long-range wireless communication protocol
- WiFi, Ethernet, or cellular Internet connectivity
- Two easy-to-deploy models to meet your needs and technical requirements
- Very low interference with other nearby wireless devices

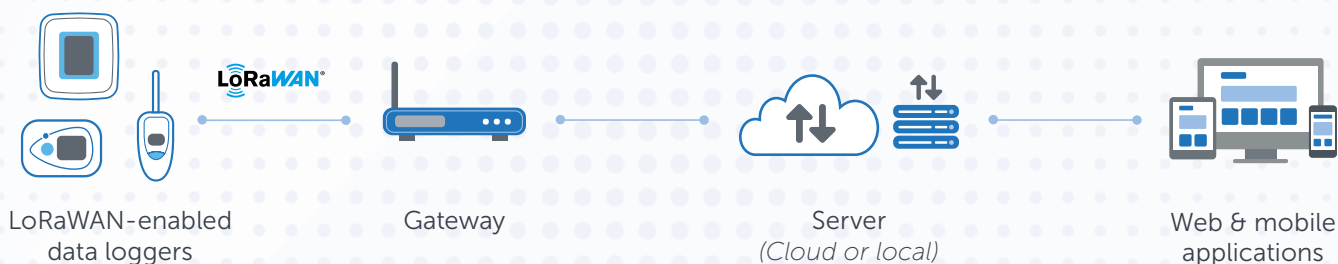


LoRa Advanced Gateway



LoRa Pro Gateway

Information flow



⁽¹⁾ Sites with a very large number of sensors may require more than one LoRaWAN gateway. Please contact us for more details.

Specifications

Compatibility	Dickson LoRaWAN-enabled Cobalt X™, Cobalt L3™, and Cobalt ML3™ data loggers • Full integration with OCEAView monitoring platform (Cloud or on-premises)
Interface	Integrated web interface for configuration and updates • LED status indicators
Alarms	Alert notification via OCEAView in case of technical problems with gateway
Connectivity	LoRaWAN long-range and low-interference wireless technology • Range up to about 15 km/10 miles ⁽¹⁾ • Automatic data logger detection • LoRaWAN channel plans in ISM spectrum: EU868, US915, AS923-1, AS923-2, AS923-3, AS923-4, AU915, IN865, KR920 • Backhaul options: Ethernet; Wi-Fi (2.4 GHz / 100mW: IEEE 802.11 b/g/n); and/or 4G-LTE cellular
Data management	Collects and forwards data between our LoRaWAN equipped data loggers and the OCEAView Cloud or on-premises server
Power	External power supply (110-240V AC adapter) • Low-energy technology preserves data logger battery
Processor	ARM9 400MHz; 16 MB DDR RAM; 256 MB Flash
Advanced model (blue)	Operating conditions: -30 °C to +70 °C (-22 °F to +158 °F) • 20 to 90% RH (non-condensing) • Anodized aluminum • IP30 rating • Dimensions: 161.3 x 107.4 x 42.8 mm (6.4 x 4.2 x 1.7 in.) • Weight: 450 g (16 oz.)
Pro model (gray)	Operating conditions: 0 °C to +70 °C (32 °F to +158 °F); 20 to 90% RH (non-condensing) • PC-ABS (polycarbonate-ABS) • IP30 rating • Dimensions: 165 x 135 x 36 mm (6.5 x 5.3 x 1.4 in.) • Weight: 284 g (10 oz.)
Storage conditions	-40 °C to +85 °C (-40 °F to +185 °F) • 20 to 90% RH (non-condensing)
Mounting & installation	Wall-mount, screw attachment
Certifications	CE, FCC, IC, ACMA, ICASA

⁽¹⁾ Line-of-Sight range based on environmental conditions & antenna orientation.



Product references

PART NUMBER	DESCRIPTION
LoRa Advanced Gateway	
GSR.REC.8005 (865/868 MHz) GSR.REC.5005 (915/923 MHz)	Ethernet / Wi-Fi
GSR.REC.8008 (865/868 MHz) GSR.REC.5008 (915/923 MHz)	Ethernet / Wi-Fi / 4G-LTE
GSR.REC.8006 (865/868 MHz)	Ethernet, outdoor installation
LoRa Pro Gateway	
GSR.REC.8007 (865/868 MHz) GSR.REC.5007 (915/923 MHz)	Ethernet-only
GSR.REC.8010 (865/868 MHz)	Ethernet-only — Power Over Ethernet ⁽³⁾
GSR.REC.8009 (865/868 MHz) GSR.REC.5009 (915/923 MHz) GSR.REC.5010 (915/923 MHz) ⁽²⁾	Ethernet / 4G-LTE
Antenna options	
Included by default	Omnidirectional — 3dBi gain 865/868 MHz or 915/923 MHz
ACC.GSR.0014 (865/868 MHz)	Taoglas omnidirectional — 5dBi gain Height: 82 cm (32.3 in.) Cable: 90 cm (35.4 in.)
ACC.GSR.0020 (915/923 MHz)	Taoglas omnidirectional — 3.5dBi gain Height: 32 cm (12.6 in.) Cable: 90 cm (35.4 in.)
ACC.GSR.0019 (865/868 MHz) ACC.GSR.0021 (915/923 MHz)	Taoglas omnidirectional — 8dBi gain For outdoor use (IP65 waterproof and lightning protection) Height: 147.4 cm (58 in.) Cable: 500 cm (197 in.)

⁽²⁾ Embedded 4G modem for Australia, New Zealand, and Israel.

⁽³⁾ Draws power from Ethernet network cable.



Distributed by:

Kenelec Scientific Pty Ltd
1300 73 22 33
sales@kenelec.com.au
www.kenelec.com.au

DICKSON
Environmental Monitoring + Compliance Experts

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Dickson Europe

Montpellier - France
+33 (0)4 99 13 67 30
contact@dicksondata.fr

Dickson North America

Addison, IL - USA
+1 (630) 543-3747
contact@dicksondata.com

Dickson Asia-Pacific

Petaling Jaya- Malaysia
+6037 494 0758
contact@dicksondata.my

www.dicksondata.com