PineX Outdoor LoRaWAN Gateway

Smart City, Smart Agriculture, Smart Facility, Smart Factory, Smart Utility, Smart Energy, Smart Logistic

SKU: PINEX



Safe Zone

Hazardous Zones

PineX is an industrial-grade outdoor LoRaWAN® Gateway, designed to operate reliably in the harshest environments—from scorching deserts to freezing Arctic conditions, and even hurricane-force winds up to 200 km/h. With IP67-rated waterproof and dustproof protection, an extended temperature range of -40°C to +70°C, and Dual LoRa Antennas for extended coverage, PineX ensures uninterrupted, long-range connectivity even in extreme weather conditions. Supporting all global LoRaWAN frequency bands, PineX integrates a built-in Network Server, Node-RED, and OpenVPN for remote device access, configuration and technical support, enabling fast, cost-efficient, and reliable industrial IoT deployments. Its integrated 4G Router with PoE (802.3at) support allows for seamless Internet access and power supply for IP cameras, sensors, and other connected devices. Designed for Smart Cities, Industrial Facilities, Smart Agriculture, and remote IoT applications, PineX is the ultimate rugged, high-performance LoRaWAN Gateway for mission-critical operations.

Applications

Condition Based Monitoring, Energy Monitoring, Facility Monitoring, Fuel Monitoring, Gas Leakage Detection, Machine Health Monitoring, Production Monitoring, Temperature Monitoring, Vibration Monitoring, Warehouse Monitoring, Water Meter Reading

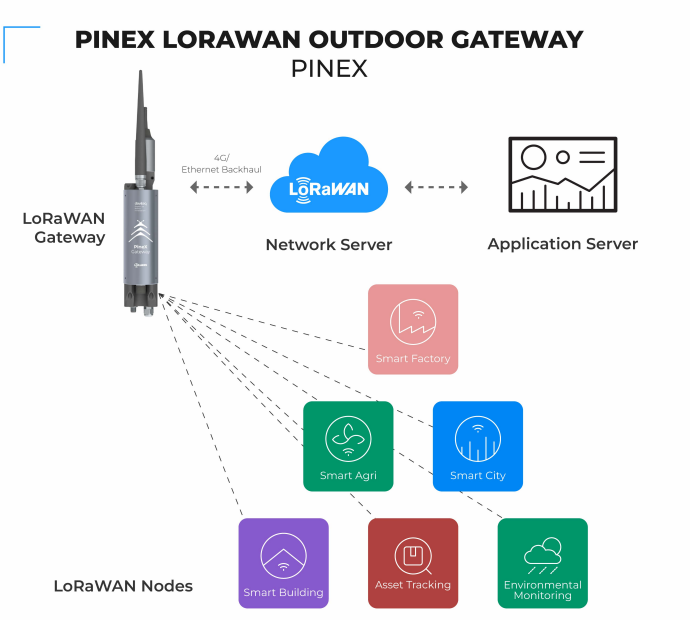
Notes For Applications

Connect to any LoRaWAN sensors
Compliance to LoRaWAN 1.0.3

Versatile built-in functions
VPN function for remote support, built-in Network Server and Node-RED for simplified setup and reduced cost, 4G router & POE source for another device

Rugged design for extreme working environment
Anodized aluminum durable compact housing for extreme working condition such as 200 km/h wind speed, -40 to 70 oC, chemical gas and salty environment

Multi-option for various applications
Cellular/Wifi connection, dual/single standard/SMA antenna, GPS/no GPS, Ethernet port with/without POE source



SYSTEM ARCHITECTURE

DAVITEQ TECHNOLOGIES INC
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info@daviteq.com **www.iot.daviteq.com**

Created date: Feb-25-2025 | Updated date: Nov-13-2026

Specification

LoRaWAN Specification	LoRaWAN 1.0.3
Frequency Band	Select 863~870MHz or 902~928MHz
Number of Channels	Up to 8 concurrent channels for LoRa transmission
LoRa Transmit Power	0.5W (up to 27 dBm)
LoRa Receive Sensitivity	Down to -139dBm@SF12, BW 125 kHz.
LoRa Software	Package Forwarder
Advanced Software features	OpenVPN for device remote management, built-in LoRaWAN Network Server for sensor-network management, device authentication and protocol-compliant data handling & Node-RED for local IoT data processing and application integration. Cellular Internet Routing function, low-power, robust, aesthetic design
COMMUNICATION	
Standard Host Communication	Ethernet 100Mbps, via outdoor RJ45 connector
Optional External Cellular Module	LTE Cat 4, supports multi-region and global bands as below
	Frequency Bands for AU: LTE-FDD (B1/2/3/4/5/7/8/28) LTE-TDD (B40)
	Frequency Bands for EU: LTE-FDD (B1/3/7/8/20/28A) LTE-TDD (B38/40/41)
	Frequency Bands for A: LTE-FDD (B2/4/12)
	Frequency Bands for Global: LTE-FDD (B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28) LTE-TDD (B38/39/40/41)
Optional GPS	GPS + GLONASS
Antenna Type	Single/Dual LoRa antenna, optional 4G LTE internal/external antenna
Power supply	12-24VDC via M12 port
Ethernet port	Optional support PoE+ source 802.3at
Housing	Anodized Aluminum, IP67, can withstand Wind speeds up to 200 Km/h
Working temperature	-40 to 70 oC
Dimensions	Diameter of 70 mm, H:500 mm (include antenna)
Weight	< 2.0kg

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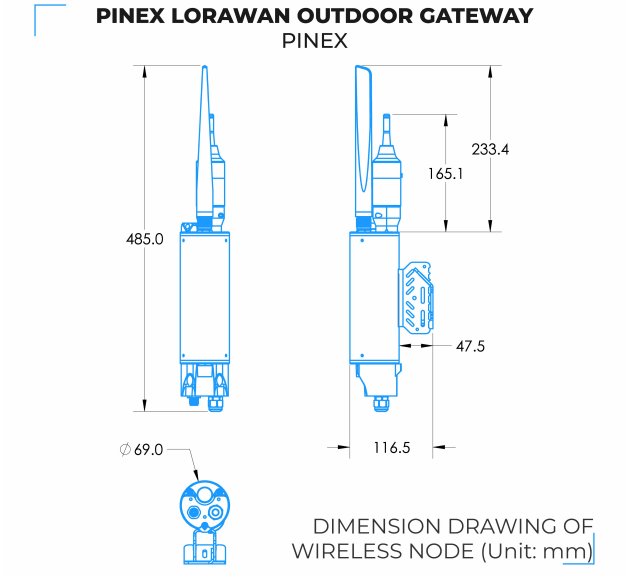



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Ordering Information

ITEM CODE	DESCRIPTION
PINEX-8-DUAL	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, DUAL ANTENNA
PINEX-8-DUAL-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, DUAL ANTENNA, ETHERNET PORT W/ POE
PINEX-8-GPS-DUAL	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, GPS, DUAL ANTENNA
PINEX-8-GPS-DUAL-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, GPS, DUAL ANTENNA, ETHERNET PORT W/ POE
PINEX-8-GPS-SINGLE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, GPS, SINGLE ANTENNA
PINEX-8-GPS-SINGLE-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, GPS, SINGLE ANTENNA, ETHERNET PORT W/ POE
PINEX-8-SINGLE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, SINGLE ANTENNA
PINEX-8-SINGLE-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, SINGLE ANTENNA, ETHERNET PORT W/ POE
PINEX-9-DUAL	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, DUAL ANTENNA
PINEX-9-DUAL-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, DUAL ANTENNA, ETHERNET PORT W/ POE
PINEX-9-GPS-DUAL	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, GPS, DUAL ANTENNA
PINEX-9-GPS-DUAL-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, GPS, DUAL ANTENNA, ETHERNET PORT W/ POE
PINEX-9-GPS-SINGLE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, GPS, SINGLE ANTENNA
PINEX-9-GPS-SINGLE-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, GPS, SINGLE ANTENNA, ETHERNET PORT W/ POE
PINEX-9-SINGLE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, SINGLE ANTENNA
PINEX-9-SINGLE-POE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, SINGLE ANTENNA, ETHERNET PORT W/ POE
PINEX-E8-DUAL	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, DUAL SMA ANTENNA
PINEX-E8-SINGLE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, SINGLE SMA ANTENNA
PINEX-E8-SINGLE-WF	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 8XX MHZ, SINGLE SMA ANTENNA, ETHERNET WITH WIFI
PINEX-E9-DUAL	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, DUAL SMA ANTENNA
PINEX-E9-SINGLE	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX MHZ, SINGLE SMA ANTENNA
PINEX-E9-SINGLE-WF	PINEX LORAWAN OUTDOOR GATEWAY, ETHERNET, 12VDC, IP67, LNS, ROUTER, NODE-RED, 9XX