SmartSwarm 243

Indsutrial LoRa Private Gateway



Features

- Long-range wide area IoT gateway
- LoRa private protocol for closed system applications
- Ethernet and I/O ports for connecting a wide range of field assets with a DIN rail or wall mounting design
- Optional solar or battery power input for low power consumption

Introduction

The SmartSwarm 243 is a high-performance LoRa gateway with reliable connectivity for industrial environments and closed system applications. With support for both MQTT but and VPN tunneling, its hardware and software flexibility brings rich features to edge intelligent systems and the full integrity of Advantech's industrial IoT architecture.

Specifications

WSN Support

 Standard Frequency ANT Connector 	LoRa private 868/915 MHz SMA female connector x 1
LAN Interface Ethernet Connector Protection 	10/100 Mbps, auto MDI/MDIX RJ45 x 1 1.5-kV built-in magnetic isolation protection
Digital I/O • Port Type • Port Connector	1 x digital input on voltage: 2.7 ~ 36 V _{DC} 4-way Molex moni-fit connector
General • LED Indicators • Reboot Trigger	PWR, DAT, WAN, ETH Reset button
Software Network and Routing 	DHCP server, NAT/PAT, VRRP, dynamic DNS client, DNS proxy, VLAN, QoS, DMVPN, NTP client/server, IGMP, BGP, OSPF, RIP, SMTP, SMTPS, SNMP v1/v2c/ v3, backup routers, PPP, PPPoE, SSL, port forwarding, host port routing, Ethernet bridging
ConfigurationNetwork Security	SSH, web browser HTTPS, SSH, VPN tunneling, SFTP, DMZ, firewall (IP, MAC address, and inbound/outbound port filtering)
 VPN Tunneling 	Open VPN client/server and P2P, L2TP, PPTP, GRE, EasyVPN, IPSec with IKEv1 and IKEv2

Mechanics

Dimensions (W x H x D) 150 x 30 x 83 mm (5.9" x 1.18" x 3.27") DIN rail, wall

187 g

- Mounting
- Weight
- Enclosure Rating IP30

Power Requirements

- Power Input 9 ~ 36 Vpc
- Power Connector 4-way Molex moni-fit connector
- Power Consumption 2.1/4.8/40 mW (average/peak/sleep mode)

Environment

- Operating Temperature -40 ~ 75 °C
- Storage Temperature -40 ~ 85 °C
- 10~95% RH Operating Humidity

Regulatory Approvals

• EMC	EN61000-4-2, Level 3 EN61000-4-3, Level 3 EN61000-4-4, Level 3 EN61000-4-5, Level 3 EN61000-4-6, Level 3 EN61000-4-12, Level 3 EN61000-4-11, voltage dip: 70%
Shock	EN61000-4-11, voltage dip: 70% IEC60068-2-27
 Free Fall 	IEC60068-2-32
 Vibration 	IEC60068-2-6

Ordering Information

BB-SG30600115-43 LoRa Gateway