

dataTrack™ Hub

The **hub** is the central point for your remote monitoring platform. Long Range (LoRa) radio frequency technology receives data for downstream IoT sensors and sends data to the cloud via LTE/4G. See real-time data on the portal.



Sensors and meters



LTE Gateway



Internet



IoT platform



User View



KEY FEATURES

- True Wireless - Requires no access to WiFi or internal LAN Networks
- LoRaWAN technology to better manage obstacles and distances
- Typical radius up to 1000ft/300m+
- Additional boosters or antennae available for high obstruction areas
- Gathers real-time data for utility mains and downstream sensors
- All data collected are hosted on the cloud portal



Modular & Expandable
Connect up to 500 sensors per hub



Open API
Cross platform functionality, connect to any legacy device

LoRaWAN has a long reach, low power consumption, and enables secure data transmission.



dataTrack™ Hub Spec Sheet - 1



Cellular Interface

- LTE Cat M1
- LTE Bit rate 375 Kbps (DL), 375 Kbps (UL)
- LTT Fdd B12, B13, B28 (700 MHz), B20 (800 MHz), B5, B18, B19, B26 (850 MHz), B8 (900 MHz), B4 (1700 MHz), B3 (1800 MHz), B2 (1900 MHz), B1 (2100MHz)
- LTE TDD B39 (1900 MHz)

Mechanics

- Dimensions (W x H x D) 150 x 37.5 x 83 mm (5.9" x 1.48" x 3.27")
- Mounting DIN rail, wall
- Weight 500g
- Enclosure Rating IP30
- SD Card 1 x Micro SD Card Slot (WISE-6610-XXXXC Only)

Power Requirements

- Power Input 9 ~ 36 VDC
- Power Connector 4-way Molex mini-fit connector
- Power Consumption .82W-9W (9-36VDC/1A)

Environment

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

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 IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6
- RF FCC/RED/NCC

Accessories

- Power Supply BB-RPS-MO4-M (not included)
- LoRaWAN Antenna 1750008946-01 (included)
- LTE Antenna 1750009236-01 (cellular version included)



dataTrack™ Hub Spec Sheet - 2



WSN Support

- Standard
- Frequency
- ANT Connector

LoRaWAN
868/915/923MHz
RP-SMA Male connector x 1

LAN Interface

- Ethernet
- Connector
- Protection

10/100 Mbps, auto MDI/MDIX
1 x RJ45
1.5-kV built-in magnetic isolation protection

Digital I/O

- Port Type
- Port Connector

1x Digital Input On Voltage: 2.7V to 36VDC
4-way Molex mini-fit connector

General

- LED Indicators
- Reboot Trigger

PWR, DAT, WAN, ETH
Reset button

Software

- Network and Routing
- Configuration
- Network Security
- VPN Tunneling

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, network server
SSH, Web Browser
HTTPS, SSH, VPN tunnels, SFTP, DMZ, firewall (IP filtering, MAC address filtering, inbound/outbound port filtering)
Open VPN client and server and P2P, L2TP, PPTP, GRE, EasyVPN, IPsec with IKEv1 and IKEv2

Cellular Interface

- LTE Bit Rate
- LTE Bands
- 3G Bit Rate
- 3G Bands
- No. SIM Slots
- ANT Connector

150 Mbps (DL), 50 Mbps (UL)
B20 (800 MHz), B8 (900 MHz), B3 (1800 MHz), B1 (2100 MHz), B7 (2600 MHz)
42.0 Mbps (DL), 5.76 Mbps (UL)
900, 2100 MHz
2 x Mini SIMs (2FF)
2 x RP-SMA female connectors

