

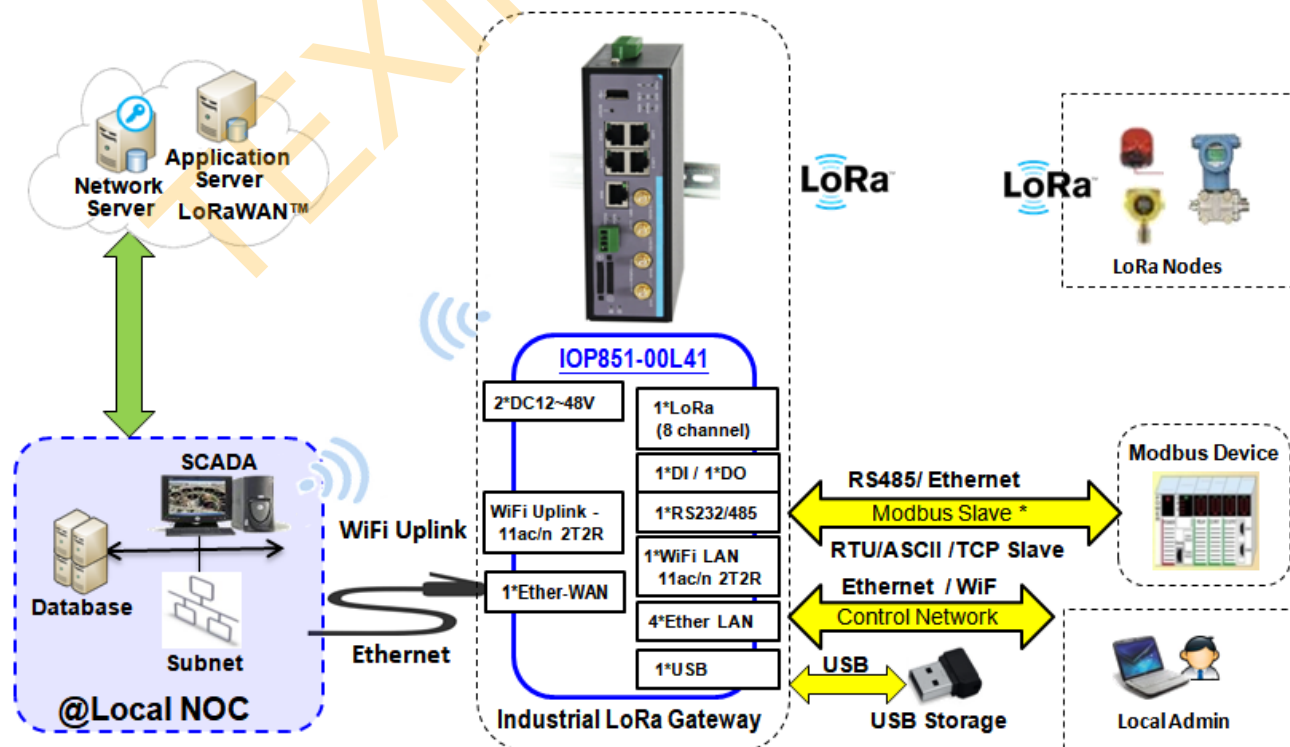
Industrial LoRa Gateway

Feature Sets:

- Smart Industry, Smart Utility, and Smart City applications.
- Equip with a WiFi uplink port for connecting the modbus devices to local network or control center wirelessly.
- Embedded an 8-channel LoRa gateway module for connecting with multiple LoRa nodes.
- LoRaWAN Compliance gateway, forward received LoRa packets to external public network server, or internal private network server.
- Integrate with 802.11n/ac 2T2R 2.4G/5GHz WiFi; Provide multiple (8+8) SSIDs for privilege group devices or users.
- 4*GE LAN port with tag based and port based VLANs easily to group control and relocate traffic pattern.
- Equip with RS232/RS485 interface for Modbus RTU and various serial communication protocol, and DI/DO for device triggering or event reporting.
- Fully protocol with NAT/Routing compatible with most IP network.
- Firewall with SPI and IPS function prevent hacker attacking and enhance network efficiency.
- SNMP, Telnet CLI, and TR-069 for administrator to manage system.
- QoS and Bandwidth management for optimal bandwidth usage.
- Seamless power failover between redundant DC 12V~48V wide range power input.



Connection Diagram:



Specifications¹:

Device Interfaces

Uplink: 802.11ac/n (5G/2.4GHz) WiFi Uplink,
1*RJ45 GE (Configurable)
LAN-RJ45: 4*RJ45 GE
LAN-WiFi: 802.11ac/n 2T2R (5GHz / 2.4GHz) WiFi
LAN-LoRa: 1*LoRa (8*Channel)
LoRa Band²: 863MHz – 870 MHz (Europe),
902MHz – 928 MHz (US)
Comm. Bus: 1*RS232/RS485 (4-pin Terminal Block)
I/O: 1*DI ("Logic 0": 0~2V, "Logic 1": 5V~30V),
1*DO (Relay Mode, up to 30V / 1A)
Log Storage: 1*USB 2.0
Antenna: 1*SMA Jack (F) for ext. LoRa Ant.
2*SMA Jack (M) for ext. WiFi Ant. (2.4G/5GHz)
Power Source: Dual DC 12V~48V

WAN Functions

WAN: Multiple WANs, Failover/Load Balance,
Configurable Ethernet/WiFi
Ethernet: Dynamic IP, Static IP, PPPoE, PPTP, L2TP
WiFi: 11ac/n 2T2R WiFi Uplink

Basic Functions

Ethernet: LAN IP, Subnet Mask
WiFi Operation: AP Router, WDS, WDS Hybrid Modes
WiFi Security: WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x
VLAN: Port-based, Tag-based
LoRa Gateway: Packet Forwarder,
Public Network Server (external),
Private Network Server (internal)
Port Forwarding: Virtual Server / Computer, DMZ Host,
PPTP/L2TP/IPSec Pass-through
Routing: Static, Dynamic: RIP1/RIP2
QoS: Policy-based Bandwidth Control and Packet
Flow Prioritization

Object Definition

Scheduling: Time Schedule List
Grouping: Host Grouping List
Ext. Server: Email, Syslog, RADIUS, SCEP, FTP
Certificate: My Certificate, Trusted Certificate,
Issue Certificate

Field Communication

Virtual COM: RFC2217, TCP Client, TCP Server, UDP
Modbus: Modbus Slave, Modbus Gateway for
Modbus TCP Master/Slave, Modbus
RTU/ASCII Master/Slave Access
Data Logging: Sniffer, Off-line Proxy, Full-time Proxy,
Sniffer & Proxy mixed modes

Security

VPN Tunneling: IPSec, OpenVPN
VPN Scenario: Site to Site, Site to Host, Host to Site, Host
to Host, Hub and Spoke, Dynamic VPN

Firewall: SPI Firewall with Stealth Mode, IPS
Access Control: MAC Filter

Service

Event Handling: Managing / Notifying Events; DI, DO,
Modbus, Syslog, SNMP Trap, Email Alert,
Reboot

Administration

Config.& Mgmt.: Web, Telnet CLI, Command Script, TR-069,
SNMPv3 standard & AMIT MIB
System Op.: MMI, System Info., System Time / Log,
Backup & Restore, Reboot & Reset
FTP: FTP Server, User Account
Diagnostic: Packet Analyzer, Diagnostic Tools

Dimension

Device (WxDxH): 62x125x160mm (w/o mounting kit)
62x135x160mm (with DIN Rail kit)

Environment

Operation Temp.³: -30 °C ~ 70 °C
Storage Temp.: -40 °C ~ 85 °C
Humidity: 10% ~ 95% (non-condensing)

Accessory

- (1) Package Content
1*Device, 1*Terminal Block (8-pin for DC Power & DI/DO),
1* Terminal Block (4-pin for serial port),
1*DIN Rail Bracket, 1*Screw Bag,
1*CD (User Manual).
(2) Optional Accessory
Power Supply, Side Mounting Brackets,
LoRa & WiFi Antenna, RF Cable.

Certification

Approval / Certificate
CE
Standards & Regulation
EMI: EN 55032: 2015 +AC: 2016 Class B
EN 61000-3-2:2014
EN 61000-3-3:2013
EMS: EN 55024:2010+A1:2015
EN 61000-6-2:2005+AC:2005
IEC 61000-4-2(ESD) Level 4
IEC 61000-4-3(RS) Level 3
IEC 61000-4-4(EFT) Level 4
IEC 61000-4-5(Surge) Level 3
IEC 61000-4-6(CS) Level 3
IEC 61000-4-8(PMF) Level 4
Radio: EN 301 489-1/-7/-17/-24/-52, EN 300 328 V2.1.1
EN 301 893 V1.8.1, EN 50385
Safety: EN 60950-1

1. Specifications are subject to change without prior notice.
2. Supported LoRa frequency depends on regional hardware version.
3. WiFi performance will be degraded if device's ambient temperature is above 60°C.

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