

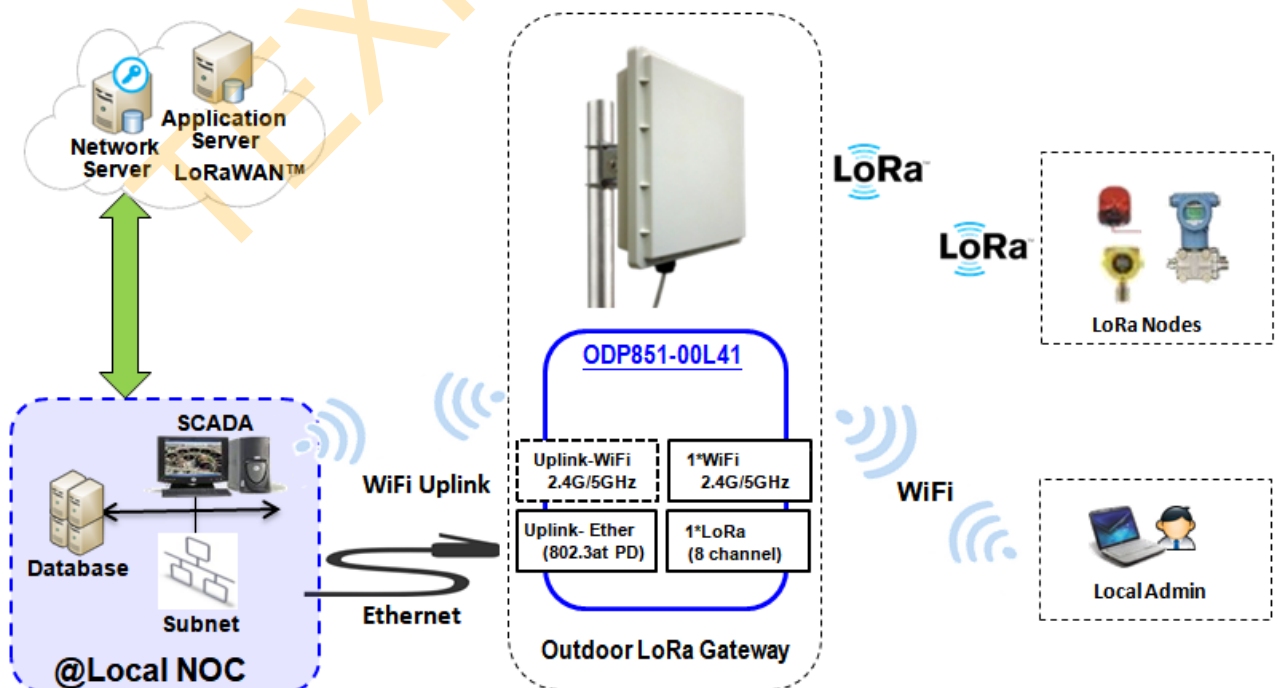
Outdoor LoRa Gateway

Feature Sets:

- Smart Utility, Smart City, and other long range low data rate outdoor access applications.
- 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.
- Provide WiFi uplink function for connecting to a wireless network just like connected to a wired WAN or cellular WAN connection.
- WiFi Compliance 802.11ac/n 2T2R (5G/2.4GHz); Multiple (8) SSIDs for privilege group devices or users.
- 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.
- IP67-rated enclosure with excellent dust/rain proof, anti-UV and robust pole / wall mounting kit.
- Lowered deployment cost with integrated Power over Ethernet for areas where power source is unavailable.



Connection Diagram:



Specifications¹:

Device Interfaces

Uplink:	1*11ac/n (5G/2.4GHz) WiFi Uplink , or 1*RJ45 GE (with 802.3at PD, configurable)
LAN-RJ45:	1*RJ45 GE (with 802.3at PD)
LAN-WiFi:	802.11ac/n 2T2R (5GHz / 2.4GHz)
LAN-LoRa:	1*LoRa (8*Channel)
LoRa Band ² :	863MHz – 870 MHz (Europe), 902MHz – 928 MHz (US)
Log Storage:	8GB Micro-SD
Antenna:	2*N-Type for ext. WiFi Ant. 1*N-Type for ext. LoRa Ant.
Enclosure:	Material: Plastic Panel (PC + anti-UV) + Die-Casting Base; IP Rating: IP67; Wind Load: 120mph
Power Source:	802.3at PoE, or proprietary Passive PoE Injector, Power Consumption: max. 20W

WAN Functions

Uplink:	Gateway, 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
LoRa Gateway:	Packet Forwarder, Public Network Server (external), Private Network Server (internal)
Port Forwarding:	Virtual Server / Computer, PPTP/L2TP/IPSec Pass-through
Routing:	Static, Dynamic: RIP1/RIP2, OSPF, BGP

Object Definition

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

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; Syslog, SNMP Trap, Email Alert, Reboot
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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): 254x254x84mm (w/o mounting 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*Cable Gland,
1*Mounting Bracket, 2*Metal Rings, 1*Screw Bag,
1*CD (User Manual).
- (2) Optional Accessory (Sold Separately)
802.3at Compliant PoE Injector, Proprietary Passive PoE
Injector (30W)

Certification

Approval / Certificate
CE

Standards & Regulation

EMI:	EN 55032: 2015 +AC: 2016 Class B EN 61000-3-2:2014, 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 4 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(PFMF) Level 4
Radio:	EN 301 489-1/-7/-17/-24/-52, EN 301 893 V1.8.1, EN 50385
Safety:	EN 60950-1, EN 60950-22
Housing:	IEC/EN 60925-2013, IP67

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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ODP851-00L41 Datasheet , V1.8b

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