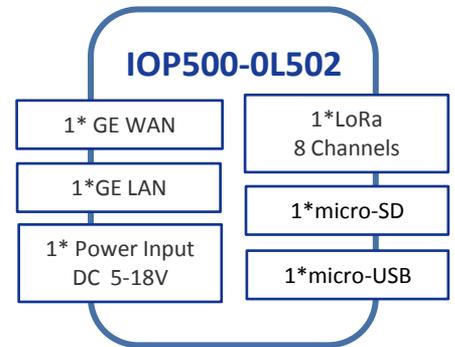


IOP500-0L502

LoRa AP

The IOP500-0L50x is optimized to acquire, process and filter large amount of real-time data. The cost-effective LoRa network solution is easy to scale connecting wide range of assets as systems, logic controllers, actuators, and sensors.



Applications:

- Standard LoRaWAN networking
- Smart City and ITS
- Remote monitoring
- LoRaWAN

LoRaWAN™ base station

- 8 channels scan, packet forwarder
- Long-range LoRaWAN™

Data & access security

- Firewall; TR-069, SNMP Remote

Robust low-latency networking

- Gigabit Ethernet

Open platform for developers

- Python programming
- AMIT Linux SDK

Fig.1 LoRa AP Connection Diagram

Expand Existing Network with LoRa Capability



Specification Summary

Device Interface

- **Ethernet:** 2*RJ45 GE
- **LoRa:** 1*LoRa (8*Channel)
- **Log Storage:** 1*MicroSD, 1*MicroUSB
- **Power Input:** 1* DC 5V ~ 18V (DC Jack)
- **Antenna Con.:** 1*SMA(F)-LoRa

WAN & Uplink

- **WAN:** Ether-WAN
- **Ether-WAN:** Dynamic IP, Static IP, PPPoE
- **Network Monitor:** ICMP/DNS Query

Protocol

- **LAN & VLAN:** DHCP Server/Relay
- **Port Forward:** Virtual Server, Virtual Computer, DMZ, VPN Pass-through

Object

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

Security

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

Administration

- **Config & Mgmt. :** Web, Telnet & SSL, Command Script, SNMPv3 Std. & Proprietary MIB , TR069, Python*
- **System:** Upgrade, Backup & Restore, Reboot & Reset, SysLog
- **Diagnostic:** Diagnostic Tools

Service

- **Event Handling:** User Defined Manage/Notify Event; Mail, Syslog, SNMP Trap
- **LoRa:**
 - LoRa Gateway, Public Network Server (external), Private Network Server (internal)
 - ISM band support: EU 863 - 870 MHz, U.S. 902 - 928 MHz, AS 923 MHz
 - Support for up to 8 uplink channels, 500 KHz bandwidth
 - LoRa technology: Spreading Factors
 - Support up to 200 Class A and C endpoints

Environment

- **OP/Store Temp.:** -30°C ~ 60°C ; -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Enclosure:** Metal, Bracket
- **Dimension:** 93x90x27mm

Certificate - CE

- Standards & Regulation
- EMI: EN 55032: 2015 +AC: 2016 Class B, EN61000-3/-6
- EMS: EN 55024, IEC 61000
- Radio: EN 301 489, EN 300328 , EN50385
- Safety: EN 60950-1, EN 62368-1

Package Accessory

- 1*Device
- 1*Power Adapter DC 5V/2A
- 1*DC Jack to Terminal Block Adaptor
- 1*DIN Rail Kit
- 4*Rubber feet, 1*CD (User Manual)
- 1*RJ45 Cable

SKU Information:

IOP500-0L502-00-yy : build-in Network Server

'yy': Area Variant. As below table

yy	SKU	Band / Channel	Channel Plan	System Cert.
E0	EU	863 - 870 MHz	EU863-870	TBC
U0	US	902 - 928 MHz	US902-928	TBC
A0	AS	923 MHz	AS923	TBC

Comment

- Specifications are subject to change without prior notice..
- Besides CE, region Certification need to check for availability.

Mechanic Drawing

• Front View



• Back View



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