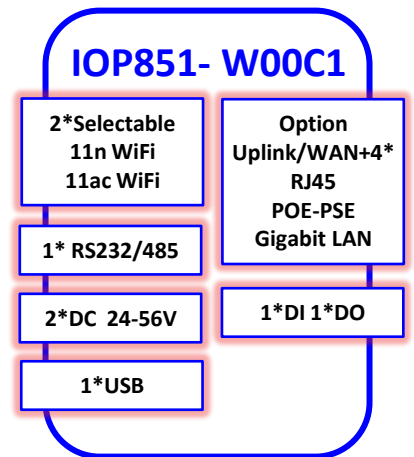




# IOP851-W WiFi PoE VPN Gateway



The gateway creates secure IIoT system and provides full operational control over field devices. The IOP851 is optimized to acquire, process and filter large amount of real-time data. It enables quick integration of wide range of connected assets with industrial network. Data transfers are protected with latest encryption algorithms and authentication protocols. The system offers Firewall with IPS and MAC filtering. Peer-to-peer connections can be established by up to 16 simultaneous IPsec VPN tunnels. Flexible configuration modes allow to utilize the unit as a wireless base station. The IOP851 supports wide range of industry's most used and open protocols. The solution that is easy to scale in the most cost-effective way.



### Applications:

- Warehousing, AS/RS, AGV
- Shop Floor Control systems
- SCADA-based, PLCs, HMIs
- Fast Roaming clients
- WiFi AP/Client/Bridge
- Wireless sensor networks



### Data security and access control

- WEP, WPA2, WPA2-PSK, 802.1x
- IPsec, OpenVPN, Firewall, IPS, NAT



### Multi-mode WiFi adapter

- AP-router, wireless device server
- WiFi uplink, Fast Roaming client



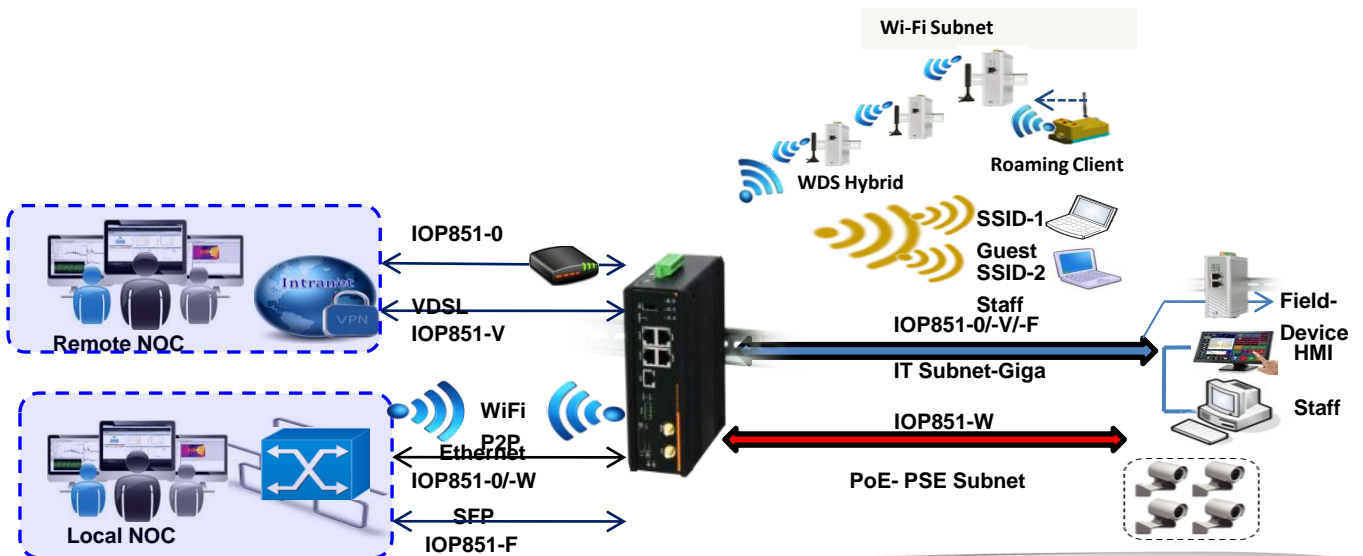
### Deployment & Administration

- Compact ruggedized enclosure
- Script, SNMP, Telnet CLI, TR-069



### Serial device server

- Modbus TCP/RTU, event manager
- Virtual COM port, serial to WLAN



# Product Specification<sup>1</sup>:

IOP851	-W00C1
Uplink – WiFi	2* 802.11a/b/g/n/ac (2.4G/5GHz selectable)
Uplink- Fixed line	1*RJ45 GE
LAN - Ethernet	4*RJ45 GE, with 802.3at PoE PSE
WLAN - WiFi	2*802.11a/b/g/n/ac (2.4G/5GHz selectable)
Serial Port	1*RS232/485
Input / Output	1* Digital In (“Logic 0”: 0~2V, “Logic 1”: 5V~30V) 1* Digital Out (Relay Mode, up to 30V / 1A)
Log Storage	1*USB 2.0
Power Source	2* DC 24V ~ 56V, Power Consumption: max. 20W + 120W for 4xPDs

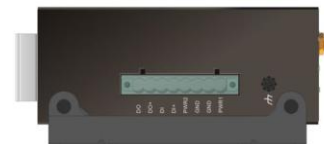
WAN	Multiple WANs, Failover
WiFi LAN	AP Router, WDS, WDS Hybrid Modes
VLAN	Port-based, Tag-based VLAN
PoE	Power Control, Manual ON/OFF, Scheduled ON/OFF (only for the model with PoE function)
Port Forwarding	Virtual Server/ Computer, DMZ Host, PPTP/L2TP/IPSec Pass-through
Routing	Static, Dynamic: RIP1/RIP2, OSPF, BGP
Virtual COM	RFC2217, TCP Client, TCP Server, UDP
Modbus	Modbus Slave; Modbus Gateway for Modbus TCP, Modbus RTU/ASCII Master/Slave Access (only for the model with serial port)
Data Logging	Sniffer, Off-line Proxy, Full-time Proxy, Sniffer & Proxy mixed modes (only for the model with serial port)
VPN	IPSec, OpenVPN
Firewall	SPI Firewall with Stealth Mode, IPS
Access Control	Packet Filter, URL Blocking, MAC Filter, Content Filter, Application Filter
Event Handling	Managing / Notifying Events; DI, DO, Modbus, Syslog, SNMP Trap, Email Alert, Reboot
Configuration & Management	Web, Telnet CLI, Command Script, TR-069, SNMPv3 standard & AMIT MIB
System Operation	MMI, System Information, System Time / Log, Backup & Restore, Reboot & Reset
FTP	FTP Server, User Account
Diagnostic	Packet Analyzer, Diagnostic Tools
Dimension (WxDxH)	62x125x160mm (w/o mounting kit) 62x135x160mm (with DIN Rail kit)
Temperature <sup>2</sup>	Operational: -30°C ~ 70°C; Storage: -40°C ~ 85°C
Humidity	10% ~ 95% (non-condensing)

## Device Interface:

(1) Front View



(2) Left View



(Note: Interfaces may vary depending on models.)

## Accessory List:

(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;
- WiFi Antenna, RF Cable;

## Certification:

(1) Approval / Certificate

CE

(2) 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 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 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.

## AMIT Wireless Inc.

TEL: +886 (0)6 505 8026 FAX: +886 (0)6 505 8068

Web: <http://www.amit.com.tw> Email: [sales@amit.com.tw](mailto:sales@amit.com.tw)

No. 28, Lane 31, Huandong Rd., Sec. 1, Xinshi Dist., Tainan City 74146, Taiwan (R.O.C.)

IOP851 Datasheet, V1.7d