Industrial 5-Port 10/100/1000T VPN Security Gateway with Redundant Power

Powerful Industrial VPN Security Solution

PLANET has launched the IVR-300 VPN Security Gateway for demanding applications. It features five Ethernet ports (4 LANs and 1 WAN), serial port (**RS485**), and DI and DO interfaces. Incorporating **SD-WAN** function, it can greatly increase WAN optimization for multiple WAN links to be managed. Furthermore, its **Dual-WAN Failover** and **Outbound Load Balance** features can improve the network efficiency while the web-based interface provides friendly and user experience.

It's ideal for the harsh environment as it can operate stably at temperatures from -40 to 75 degrees C. Its compact IP30 metal case allows either DIN-rail or wall mounting for efficient use of cabinet space.

Ideal VPN Security Gateway Solution for Factories and Transportations

The IVR-300 provides complete data security and privacy for accessing and exchanging the most sensitive data, built-in IPSec VPN function with DES/3DES/AES encryption and MD5/SHA-1/SHA-256/SHA-384/SHA-512 authentication, and GRE, SSL, PPTP and L2TP server mechanism. The full VPN capability in the IVR-300 makes the connection secure, more flexible, and more capable.

Highlights
- Dual-WAN function
- 1 USB 3.0 port for system configuration backup and firmware upgrade
- 2 x DI/DO and 1 serial port (RS485) for Modbus applications
- SSL VPN and robust hybrid VPN (IPSec/PPTP/L2TP over IPSec)
- Stateful packet inspection (SPI) firewall and content filtering
- Blocks DoS/DDOS attack, port range forwarding
- High Availability, AP Controller, Captive Portal and RADIUS
- Planet NMS controller system and CloudViewer app supported
- -45 to 75 degrees C operating temperature; DIN-rail and fanless designs

Hardware
- **4 x 10/100/1000BASE-T** RJ45 LAN ports, auto-negotiation, auto MDI/MDI-X
- **1 x 10/100/1000BASE-T** RJ45 WAN port, auto-negotiation, auto MDI/MDI-X
- **1 x** 3-pin terminal block (RS485)
- **1 x** reset button
- **1 x** USB 3.0 port
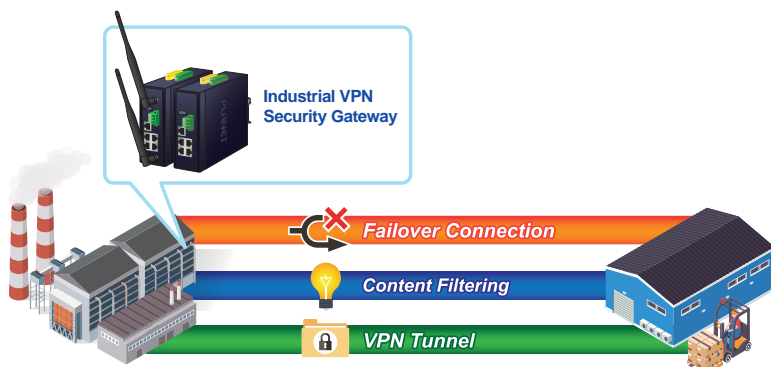
IP Routing Feature
- Static Route
- Dynamic Route
- OSPF

Firewall Security
- Cybersecurity
- Stateful Packet Inspection (SPI) firewall
- Blocks DoS/DDoS attack
- Content Filtering
- MAC Filtering and IP Filtering
- NAT ALGs (Application Layer Gateway)
- Blocks SYN/ICMP Flooding

VPN Features
- IPSec/Remote Server (Net-to-Net, Host-to-Net), GRE, PPTP Server, L2TP Server, SSL Server/Client (Open VPN)
- Max. Connection Tunnel Entries: 60 VPN tunnels,
- Encryption methods: DES, 3DES, AES, AES-128/192/256
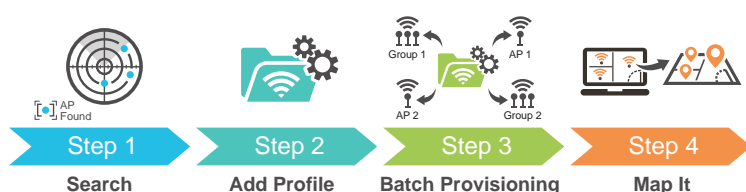- Authentication methods: MD5, SHA-1, SHA-256, SHA-384, SHA-512

Industrial VPN
Security Gateway

Failover Connection

Content Filtering

VPN Tunnel

Networking

- Outbound load balancing for Ethernet WANs
- Auto-failover between Ethernet network WANs
- High Availability
- Captive Portal
- RADIUS Server
- Static IP/PPPoE/DHCP client for WAN
- DHCP server/NTP client for LAN
- Protocols: TCP/IP, UDP, ARP, IPv4, IPv6
- Port forwarding, QoS, DMZ, IGMP, UPnP, SNMPv1,v2c, v3
- MAC address clone
- DDNS: PLANET DDNS, Easy DDNS, DynDNS and No-IP

Others

- Setup wizard
- Dashboard for real-time system overview
- Support for HTTP or HTTPS
- Auto reboot
- PLANET NMS System and Smart Discovery Utility for deployment management
- PLANET CloudViewer app for real-time monitoring
- Configuration backup and restoration via remote/USB port
- Firmware upgrade via remote/USB port

Centralized Remote Control of Managed APs

The IVR-300 provides centralized management of PLANET Smart AP series via a user-friendly Web GUI. It's easy to configure AP for the wireless SSID, radio band and security settings. With a four-step configuration process, wireless profiles for different purposes can be simultaneously delivered to multiple APs or AP groups to minimize deployment time, effort and cost.

Central AP Controller

Lobby

Meeting Room
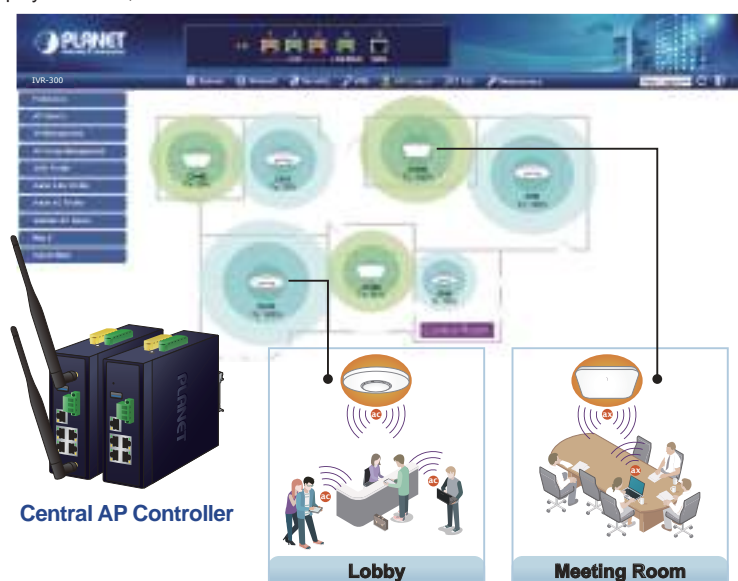
For example, to configure multiple smart APs of the same model, the IVR-300 allows clustering them to a managed group for unified management. According to requirements, wireless APs can be flexibly expanded or removed from a wireless AP group at any time. The AP cluster benefits bulk provision and bulk firmware upgrade through single entry point instead of having to configure settings in each of them separately.

Simplified Cluster Management with 4 Steps

Step 1	Step 2	Step 3	Step 4
Search	Add Profile	Batch Provisioning	Map It

Excellent Ability in Threat Defense

The IVR-300 has built-in SPI (stateful packet inspection) firewall and DoS/DDoS attack mitigation functions to provide high efficiency and extensive protection for your network. Thus, virtual server and DMZ functions can let you set up servers in the Intranet and still provide services to the Internet users.
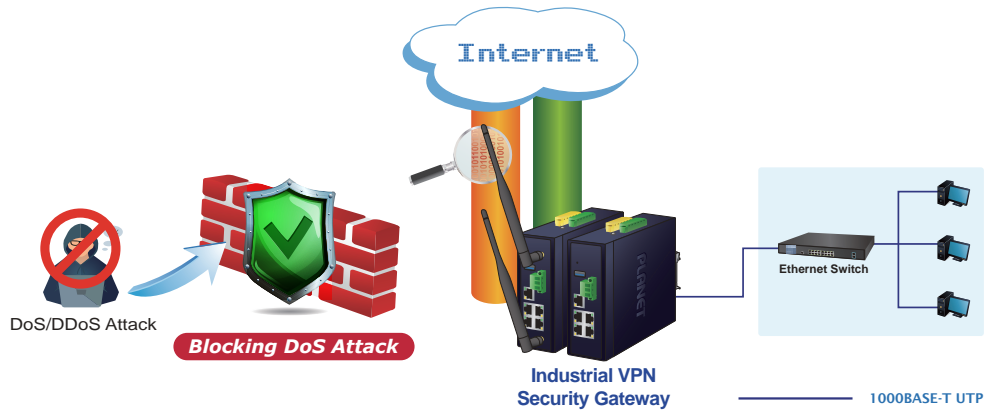

Cybersecurity Network Solution to Minimize Security Risks

The cybersecurity feature included to protect the switch management in a mission-critical network virtually needs no effort and cost to install. For efficient management, the IVR-300 is equipped with HTTPS web and SNMP management interfaces. With the built-in web-based management interface, the IVR-300 offers an easy-to-use, platform independent management and configuration facility. The IVR-300 supports SNMP and it can be managed via any management software based on the standard SNMP protocol.

Cost-effective Solution for RS485 to Ethernet Application

The IVR-300 provides a feature that can convert the Serial RS485 communication to IP networking. Ethernet signal allows two types of segments to connect easily, efficiently and inexpensively. The solution helps users and SIs save expenses as there is no need to replace the existing serial equipment and software system.

Convert Serial Communication to IP Networking
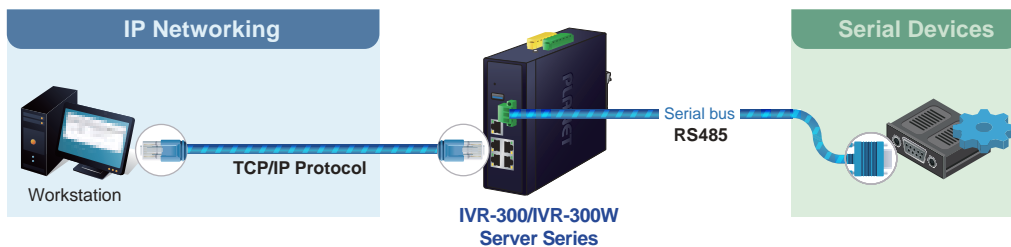
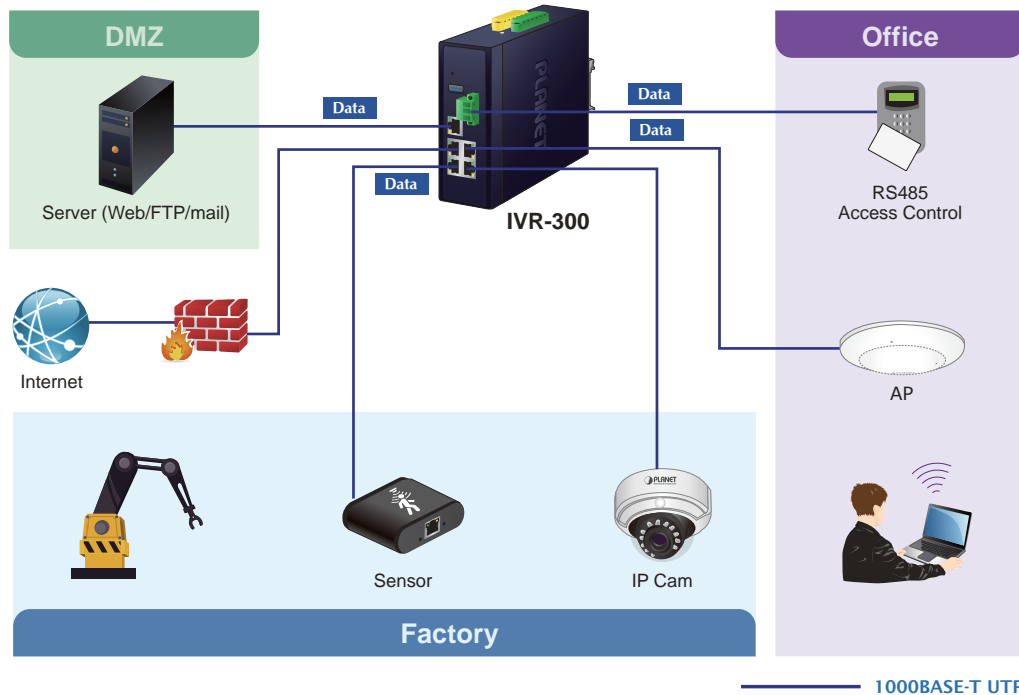## Convenient and Reliable Redundant Power System

To facilitate transportation and industrial-level applications, the IVR-300 provides an integrated power solution with a wide range of voltages (9~54V DC) for worldwide operability. It also provides dual-redundant, reversible polarity 9~54V DC power supply inputs for high availability applications.

Applications

Ideal VPN Security Gateway

PLANET IVR-300 can work as a VPN security gateway in an industrial application for a company that has a factory and many different divisions. With IPSec/GRE/PPTP/L2TP/SSL VPN solutions, the IVR-300 installed at the headquarters provides branches, vendors, and mobile workers with secure data communication no matter how long the distance would be.

The IVR-300 connects dual WANs with up to two different ISPs. It creates a stable and qualified VPN connection for many important applications such as VoIP, video conferencing and data transmission.

Specifications

Product	IVR-300
Hardware Specifications	
Copper Ports	5 10/100/1000BASE-T RJ45 Ethernet ports including 3 LAN ports (Ports 1 to 3) 1 LAN/WAN port (Port 4) 1 WAN port (Port 5)
Serial Interface	1 x 3-pin terminal block for RS485
USB Port	1 USB 3.0 port
DI & DO Interfaces	2 Digital Input (DI): Level 0: -24V~2.1V (±0.1V) Level 1: 2.1V~24V (±0.1V) Input Load to 24V DC, 10mA max 2 Digital Output (DO): Open collector to 24V DC, 100mA max.
Connector	Removable 6-pin terminal block for power input Pin 1/2 for Power 1, Pin 3/4 for fault alarm, Pin 5/6 for Power 2
Reset Button	< 5 sec: System reboot > 5 sec: Factory default
Enclosure	IP30 metal case
Installation	DIN rail, desktop, wall-mounting
LED Indicators	System: P1 (Green) P2 (Green) Alarm (Red) I/O (Red) Ethernet Interfaces (Ports 1-4 and WAN Port): 1000 LNK/ACT (Green) 10/100 LNK/ACT (Amber)
Dimensions (W x D x H)	50 x 135 x 135 mm
Weight	712g
Power Requirements – DC	9~54V DC, 1.8A
Power Consumption	Max. 3.7 watts/12.61 BTU (No Loading) Max. 8.7 watts/29.66 BTU (Full loading)
Advanced Functions	
VPN	IPSec/Remote Server (Net-to-Net, Host-to-Net) GRE PPTP Server L2TP Server SSL Server/Client (Open VPN)
VPN Tunnels	Max. 60
VPN Throughput	Max. 108Mbps
Encryption Methods	DES, 3DES, AES or AES-128/192/256 encrypting
Authentication Methods	MD5/SHA-1/SHA-256/SHA-384/SHA-512 authentication algorithm
Management	
Basic Management Interfaces	Web browser SNMP v1, v2c PLANET Smart Discovery utility and NMS controller supported
Secure Management Interfaces	TLSv1.2, SNMP v3
System Log	System Event Log
Others	Setup wizard Dashboard System status/service Statistics Connection status Auto reboot Diagnostics
Standards Conformance	
Regulatory Compliance	CE, FCC

Environment	
Operating	Temperature: -40 ~ 75 degrees C Relative humidity: 5 ~ 90% (non-condensing)
Storage	Temperature: -40 ~ 85 degrees C Relative humidity: 5 ~ 90% (non-condensing)

Dimensions

Top View

Front View

Side View

Rear View

Bottom View
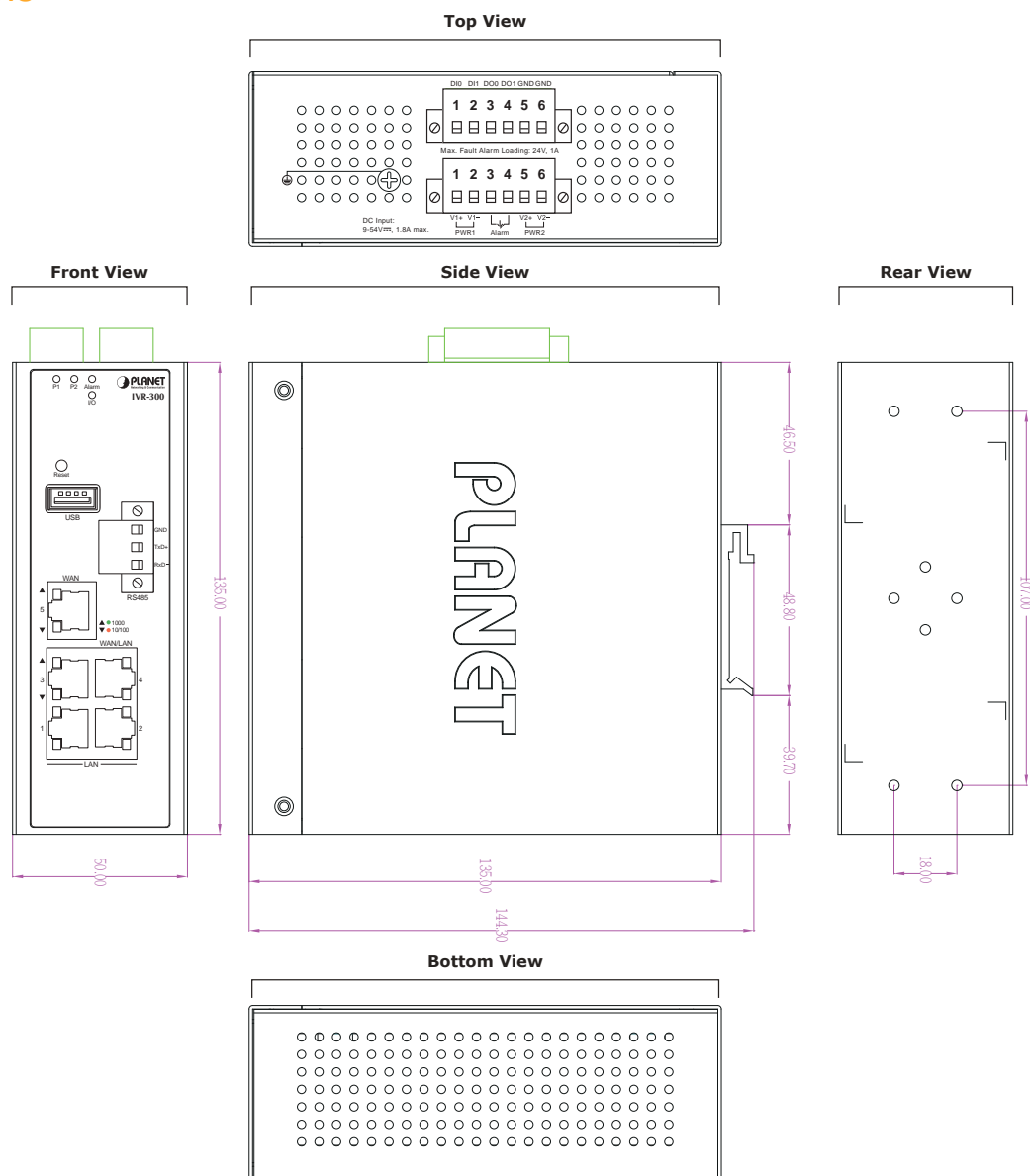
Ordering Information

IVR-300	Industrial 5-Port 10/100/1000T VPN Security Gateway with Redundant Power

Related Products

ICG-2515-NR	Industrial 5G NR Cellular Gateway with 5-Port 10/100/1000T
IVR-100	Industrial 5-Port 10/100/1000T VPN Security Gateway
ICG-2510WG-LTE	Industrial 4G LTE Cellular Wireless Gateway with 5-Port 10/100/1000T
VCG-1500WG-LTE	Vehicle 4G LTE Cellular Wireless Gateway with 5-Port 10/100TX
WGR-500-4PV	Industrial Wall-mount Gigabit Router with 4-Port 802.3at PoE+ and LCD Touch Screen
WGR-500-4P	Industrial Wall-mount Gigabit Router with 4-Port 802.3at PoE+
WGR-500	Industrial 5-Port 10/100/1000T Wall-mount Gigabit Router

FC CE

IVR-300