

IDS-5642-WG

Industrial security 4-port RS232/422/485 to 802.11 b/g WLAN and 2-port 10/100TX Device

Highlights

- Data Security: SSL encryption
- Internet Community: PPPoE
- Update DNS Hostname: DDNS
- Comport command support
- Redundant Dual Ethernet Ports: Recovery time < 10ms
- Switch Mode Supported: Daisy Chain support to reduce usage of switch ports
- High Speed Air Connectivity: WLAN interface support up to 54Mbps link speed
- Highly Security Capability: WEP/WPA/WPA2/TKIP supported
- NAT-pass through: User can manage IDS-5642-WG/IWG through NAT router
- Redundant Power Inputs: 12~48VDC on terminal block
- Redundant multiple host devices: 5 simultaneous in Virtual COM, TCP Server, TCP Client mode, UDP
- Secured Management by HTTPS and SSH
- Versatile Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Event Warning by Syslog, Email, SNMP trap, and Beeper
- Various Windows O.S. supported: Windows NT/2000/ XP/ 2003/ VISTA 32 bits



Features

- Dual redundant Ethernet port support redundant mode (Recovery time < 10ms)
- Ethernet switch mode enable Daisy Chain
- High Speed with a maximum link speed of 54Mbps With IEEE802.11b/g dual mode capability
- High Security Capability with WEP, WPA, WPA2, and TKIP
- Redundant 5 multiple host devices supported to protect your industrial network
- Redundant 5 multiple host devices supported to protect your industrial network
- Versatile modes & event alarm by e-mail
- HTTPs & SSH protocol supported for secured management
- NAT router pass through
- Console command control
- SSL encryption for Security data transfer
- PPPoE for internet community
- DDNS for domain name service IP table to prevent access from unauthorized IP address
- Configurable by Web-based and Windows utility (DS-Tool)
- 2KV isolation for RS422/485 serial port of IDS-5642-IWG
- Dual redundant DC power inputs of terminal block
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

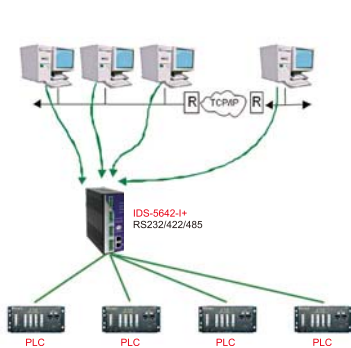
Introduction

IDS-5642-WG is an innovative security 4 ports RS232/422/485 to 802.11b/g WLAN and 2 ports LAN device server and IDS-5642-IWG with 4 ports isolated RS422/485. Users are able to configure the device server by DS-Tool via LAN port or WLAN interface, but not simultaneously. Once LAN port is activated, WLAN interface will enter standby mode to minimize power consumption. IDS-5642-WG / IDS-5642-IWG offers many powerful

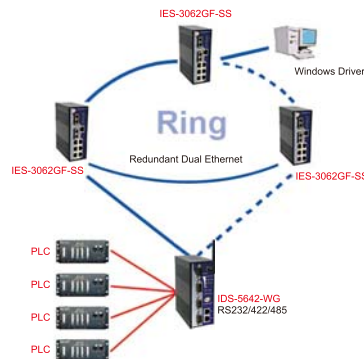
features for HW & SW redundant functions. When the connection between master-link and LAN fails, IDS-5642-WG/IDS-5642-IWG can automatically switch to another LAN port within 10mS, and still guarantees a non-stop connection. IDS-5642-WG/IDS-5642-IWG also supports switch mode; users can use Daisy Chain to reduce the usage of Ethernet switch ports. Secondly, IDS-5642-WG/IDS-5642-IWG can simultaneously transfer SSL encryption data into 5 host PCs. This feature can assure all critical data that saved in different host PCs to avoid Ethernet break or host PCs failure. Thirdly, IDS-5642-WG /IDS-5642-IWG provides dual redundant power inputs on terminal block. IDS-5642-WG /IDS-5642-IWG also provides NAT pass through function so that users are able to manage IDS-5642-WG /IDS-5642-IWG inside or outside the NAT router. It is easy for different IP domain users to use IDS-5642-WG /IDS-5642-IWG. Therefore, IDS-5642-WG/IDS-5642-IWG is one of the best security communication solution for wireless application of quad-port serial devices

DS-Tool

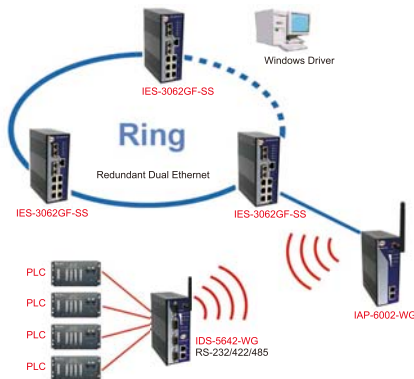
In practical operation of serial device servers, Windows utility (DS-Tool) is supported. This utility is very helpful for you to manage and monitor all of industrial device servers on the industrial network.



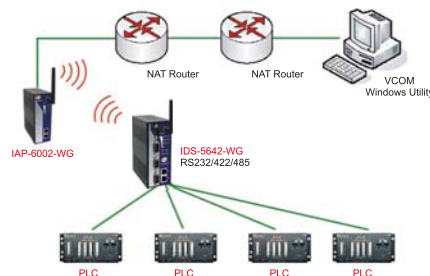
Redundancy 5 Host Devices



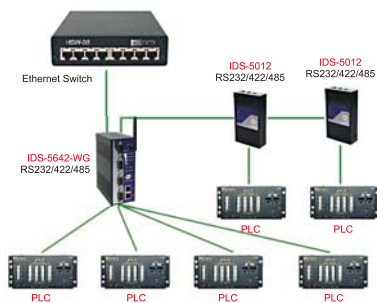
Dual Ethernet Redundancy mode



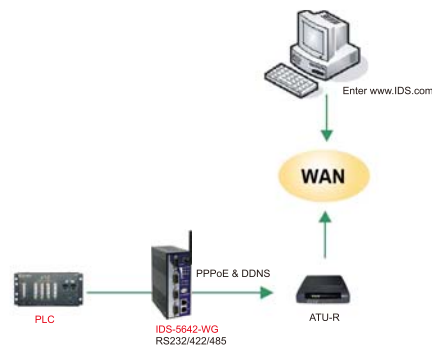
Wireless LAN Client Mode



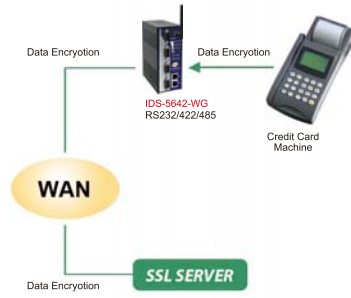
NAT Router Pass Through



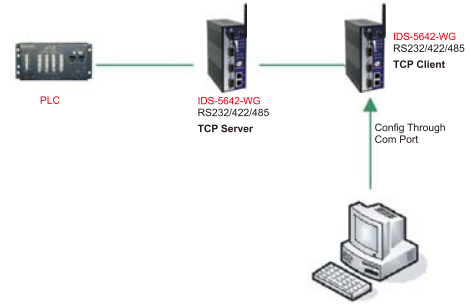
Daisy Chain Switch mode



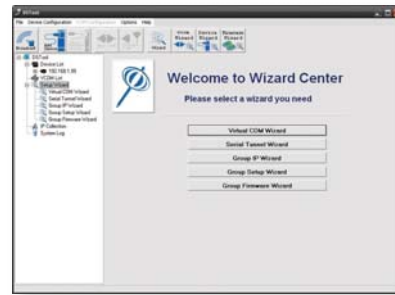
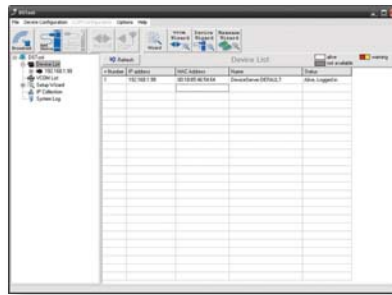
Connect through PPPoE / DDNS



SSL Data Encryption



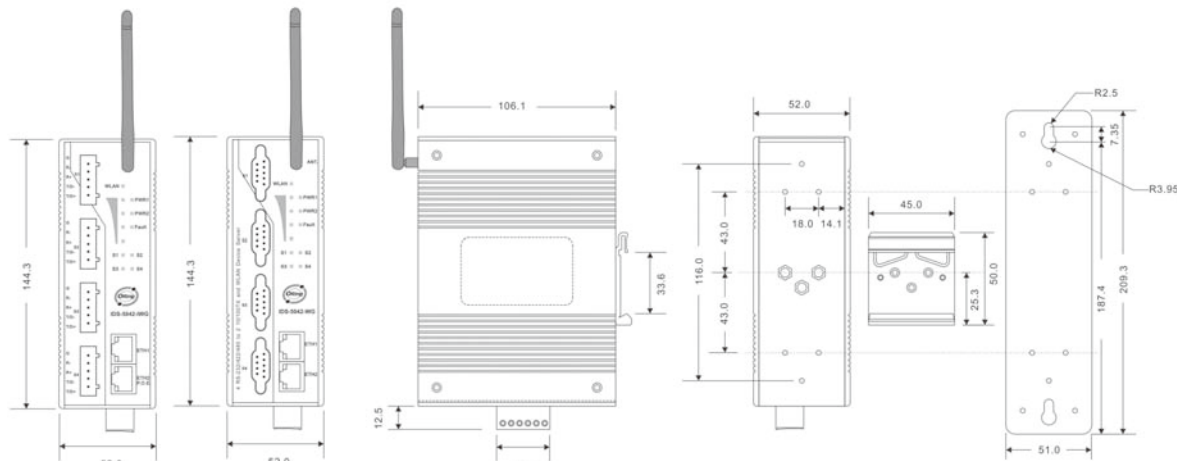
COM Port Command



Monitoring and Configuration interface

Dimension

(Unit=mm)



Specifications

ORing Device Server Model	IDS-5642-WG	IDS-5642-IWG
Physical Ports		
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	2	
WLAN Feature		
Operating Mode	Client mode	
Antenna Connector	Reverse SMA	
Antenna Connector	Reverse SMA	
Radio Frequency Type	DSSS	
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM	
Frequency Band	America/FCC: 2.412~2.462 GHz (11 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels)	
Transmission Rate	IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps IEEE802.11g: 6/ 9/ 12/ 18/ 24/ 36/ 48/ 54 Mbps	
Transmit Power	IEEE802.11b/g: 18dBm	
Receiver Sensitivity	-81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10%	
Encryption Security	WEP: (64-bit , 128-bit key supported) WPA: WPA2 : 802.11i(WEP and AES encryption) PSK (256-bit key pre-shared key supported) TKIP encryption	
Serial Ports		
Connector	DB9 x 4	5 pin terminal block x 4
Operation Mode	RS232 / RS422 / 4(2)-Wire RS485. Which can be configured by DS-Tool	RS422 / 4(2)-Wire RS485. Which can be configured by DS-Tool
Serial Baud Rate	110 bps to 460.8 Kbps	
Data Bits	5, 6, 7, 8	
Parity	odd, even, none, mark, space	
Stop Bits	1, 1.5, 2	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND	
RS-422	Tx+,Tx-, Rx+, Rx-,GND	
RS-485 (4-wire)	Tx+,Tx-, Rx+, Rx-,GND	
RS-485 (2-wire)	Data+, Data-,GND	
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR	
LED indicators		
Power indicator	PWR 1(2) / Ready: Red On: Power is on and booting up. Red Blinking: Indicates an IP conflict, or DHCP or BOOTP server did not respond properly. Green On: Power is on and functioning Normally. Green Blinking: Located by Administrator.	
10/100TX RJ45 port indicator	Green for port Link/Act at 100Mbps. Yellow for port Link/Act at 10Mbps.	
WLAN indicator	WLAN Link /ACT: Green WLAN Strength: 1<25%, 2<50%, 3<75%, 4<100%	
Serial TX / RX LEDs:	Red: Serial port is receiving data Green: Serial port is transmitting data	
Power		
Redundant Input power	Dual DC inputs. 12-48VDC on 6-pin terminal block, 12-45VDC on power jack	
Power consumption (Typ.)	6.5 Watts	
Overload current protection	Present	
Reverse polarity protection	Present on terminal block	

5
ORing

Industrial Device Server

