IDS-5042-WG/5042-IWG

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

- Redundant Dual Ethernet Ports: Recovery time < 10ms</p>
- 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-5042-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-bit





Company Overview

Key

Products

Product Selection Guide

Industrial Ethernet Switch

> Industrial Media Converter

Industrial Device Server

Industrial Ireless Solution

Industrial Serial Card

USB Servei

> 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
- Versatile modes & event alarm by e-mail
- HTTPs & SSH protocol supported for secured management

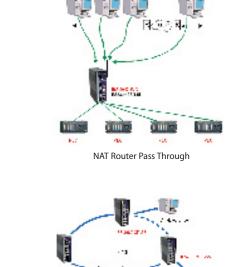
- NAT router pass throughIP table to prevent access from unauthorized IP
- address
- Configurable by Web-based and Windows utility (DS-Tool)
- 2KV isolation for RS422/485 serial port of IDS-5042-IWG
- Dual redundant DC power inputs of terminal block
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

> Introduction

IDS-5042-WG is an innovative 4 ports RS232/422/485 to 802.11b/g WLAN and 2 ports LAN device server and IDS-5042-IWG with 4 ports isolated RS422/485. Users are able to configure the Switch 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-5042-WG /IDS-5042-IWG offers many powerful features for HW & SW redundant functions. When the connection between master-link and LAN fails, IDS-5042-WG/IDS-5042-IWG can automatically switch to another LAN port within 10mS, and still guarantees a non-stop connection. IDS-5042-WG/IDS-5042-IWG also supports switch mode; users can use Daisy Chain to reduce the usage of Ethernet switch ports. Secondly, IDS-5042-WG/IDS-5042-IWG can simultaneously transfer 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-5042-WG /IDS-5042-IWG provides dual redundant power inputs on terminal block. IDS-5042-WG /IDS-5042-IWG also provides NAT pass through function so that users are able to manage IDS-5042-WG /IDS-5042-IWG inside or outside the NAT router. It is easy for different IP domain users to use IDS-5042-WG/IDS-5042-IWG. Therefore, IDS-5042-WG/IDS-5042-IWG is one of the best communication solution for wireless application of quad-port serial devices.

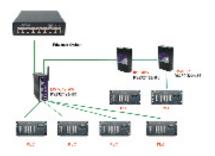
> DS-Tool

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.



Wireless LAN Client Mode

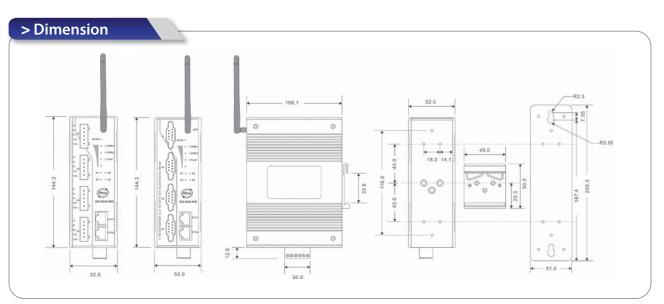
Dual Ethernet Redundancy Mode



Daisy Chain Switch Mode

18 January 1997
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Monitoring and Configuration interface

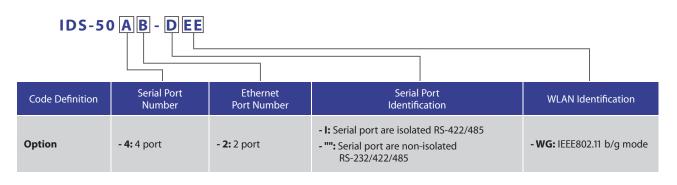


Unit=mm

ORing Device Server Model	IDS-5042-WG	IDS-5042-IWG	
Physical Ports			
0/100Base-T(X) Ports in RJ45 Auto MDI/MDIX		2	
		-	
NLAN Feature	Client media		
Operating Mode	Client mode		- 1
Antenna Connector	Reverse SMA		
Radio Frequency Type Modulation	DSSS IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM		1
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	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		
low 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. Amber for	port Link/Act at 10Mbps.	
VLAN indicator	WLAN Link /ACT: Green: Link WLAN Strength: 1<25%, 2<50%, 3<75%, 4<100%		2
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 bloc	ck	1
Power consumption (Typ.)	6.5 Watts	6.5 Watts	
Overload current protection	Present		

Physical Characteristic				
Enclosure	IP-30			
Dimension (W x D x H)	52(W) x 106.1(D) x 144.3(H) mm (2.05x4.18x5.68 inch.)			
Weight (g)	691 g	675 g		
Environmental				
Storage Temperature	-40 to 85°C(-40 to 185°F)			
Operating Temperature	-10 to 55°C (14 to 131°F)			
Operating Humidity	5% to 95% Non-condensing			
Regulatory approvals				
EMI	FCC Part 15, CISPR (EN55022) class A			
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11			
Shock	IEC60068-2-27			
Free Fall	IEC60068-2-32			
Vibration	IEC60068-2-6			
Safety	EN60950			
Warranty	3 years			

> Ordering Information



	Model Name	Description
Available Model	IDS-5042-WG	Industrial 4-port RS232/422/485 to 802.11 b/g WLAN and 2-port 10/100TX Device Server
	IDS-5042-IWG	Industrial 4-port isolated RS422/485 to 802.11 b/g WLAN and 2-port 10/100TX Device Server