



# Quick Installation Guide

## IDS Series

## Industrial Device Server

### Introduction

**IDS Series** is an innovative 1/4 port(s) RS232/422/485 to fiber or 1/2 port(s) LAN or 802.11b/g WLAN secured device server. You are able to configure **IDS Series** by DS-Tool via LAN port or WLAN interface. It offers many powerful features for HW & SW redundant functions. When the Ethernet connection of master-link fails, **IDS Series** can automatically switch to another LAN port within 10ms, and still guarantees a non-stop connection. Secondly, **IDS Series** 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 Series** provides dual redundant power inputs on terminal block or power jack. It also supports switch mode(2 ports LAN models), You can use Daisy Chain to reduce the usage of ethernet switch ports. It also provides NAT pass through function so that users are able to manage **IDS Series** inside or outside the NAT router. This feature makes it easy for different IP domain users to use **IDS Series**. In addition, it also provides the security function to protect the data with SSL encryption technology. Therefore, **IDS Series** is one of the best communication solution for wired or wireless application of 1/4 port serial device(s).

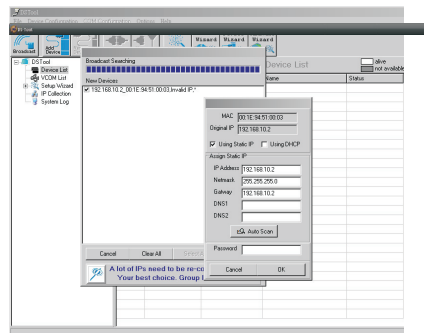
### Features

- > Redundant Dual Ethernet Ports: Recovery time < 10ms (Dual LAN model)
- > 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 the Device server through NAT router
- > SSL encryption for Security data transfer
- > PPPoE for internet community
- > DDNS for domain name service
- > Redundant Power Inputs: 12~48VDC on terminal block or power jack
- > 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, Relay output (4-port model) and Beeper
- > Various Windows O.S. supported: Windows NT/2000/XP/2003/VISTA 32-bit

### Windows Utility : DS-Tool

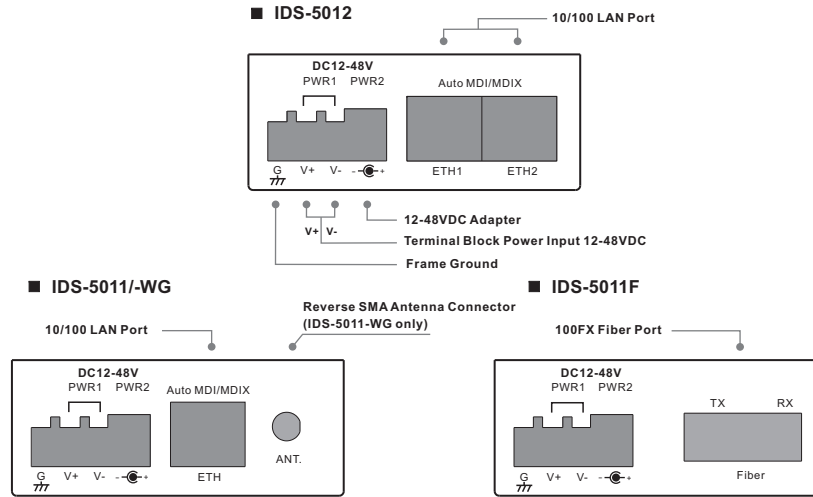
DS-Tool is a powerful management Windows Utility for Device server. It supports device discovery, device configuration, group setup, group firmware update, monitoring functions...etc. It is easy for you to install and configure devices on the network.

DS-Tool will search all available Device server in the network. The default IP address of device is "192.168.10.2", and selects the searched device and press "Add" button. You can set static IP address or in DHCP client mode to get IP address automatically. Finally, click "OK" button to add the device.

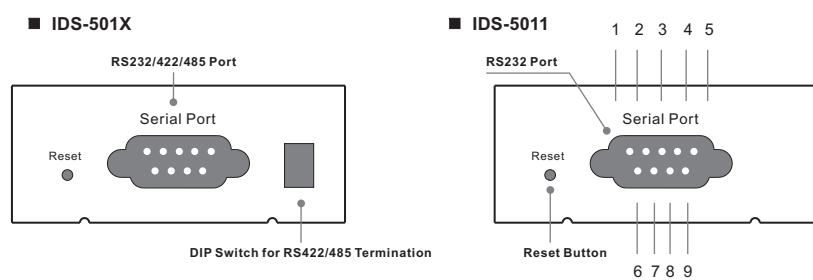


### Product Interface

#### Top View



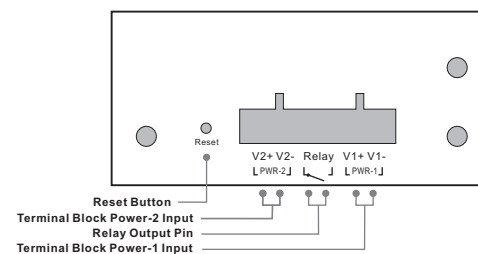
#### Bottom View



Serial Port DB9 Pin Assignment

Operation Mode	1 Port Device Server Serial Port Pin# Description									Termination	
	1	2	3	4	5	6	7	8	9	SW1	SW2
RS232	DCD	RXD	TXD	DTR	GND	DSR	RTS	CTS	RI	OFF	OFF
RS422	RXD-	RXD+	TXD+	TXD-	GND					ON	ON
RS485 (4 wire)	RXD-	RXD+	TXD+	TXD-	GND					ON	ON
RS485 (2 wire)			DATA+	DATA-	GND					OFF	ON
	No Termination									OFF	OFF

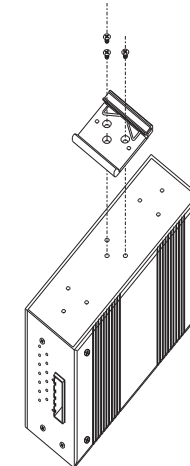
#### IDS-5042 Series



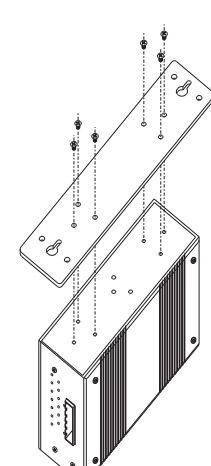
### Installation

#### IDS-5042 Series

##### DIN-Rail Install Step

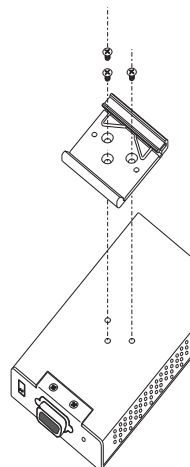


##### Wall-mounted Install Step

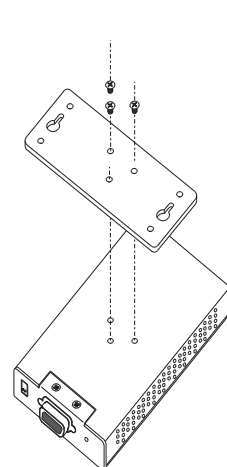


#### IDS-501X Series

##### DIN-Rail Install Step



##### Wall-mounted Install Step



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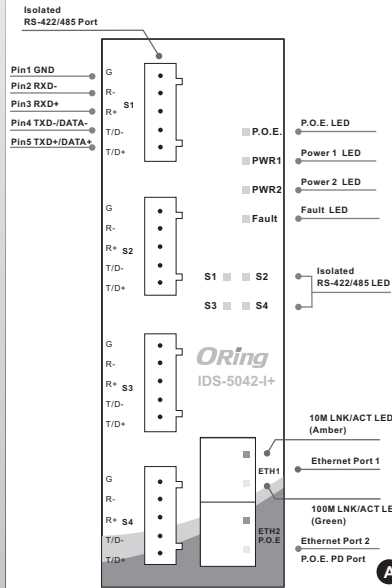
# Quick Installation Guide

## IDS Series

## Industrial Device Server

### Front Panel

#### IDS-5042 Series

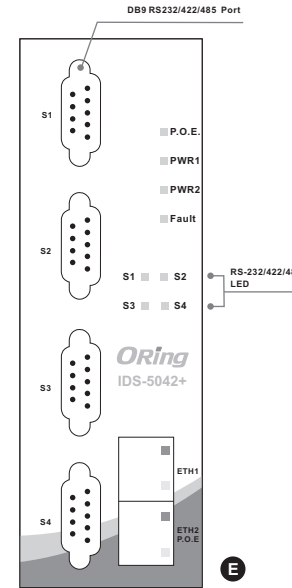
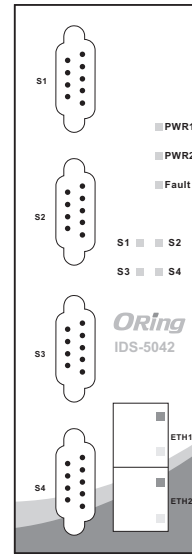


#### Serial port Terminal Block Pin Assignment

Operation Mode	1	2	3	4	5
RS422	GND	RXD-	RXD+	TXD-	TXD+
RS485 (4 wire)	GND	RXD-	RXD+	TXD-	TXD+
RS485 (2 wire)	GND			DATA-	DATA+

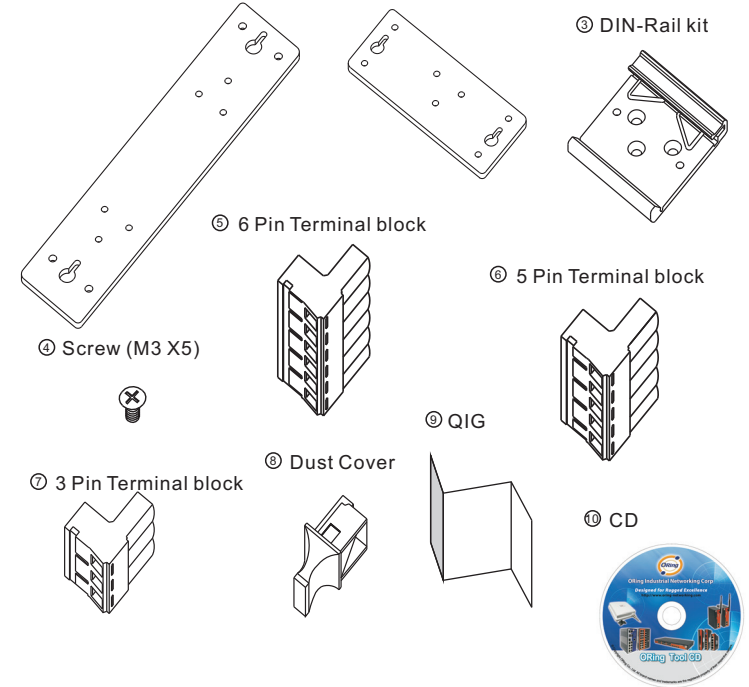
#### Serial port DB9 Pin Assignment

Operation Mode	1	2	3	4	5	6	7	8	9
RS232	DCD	RXD	TXD	DTR	GND	DSR	RTS	CTS	RI
RS422	RXD-	RXD+	TXD+	TXD-	GND				
RS485 (4 wire)	RXD-	RXD+	TXD+	TXD-	GND				
RS485 (2 wire)			DATA+	DATA-	GND				

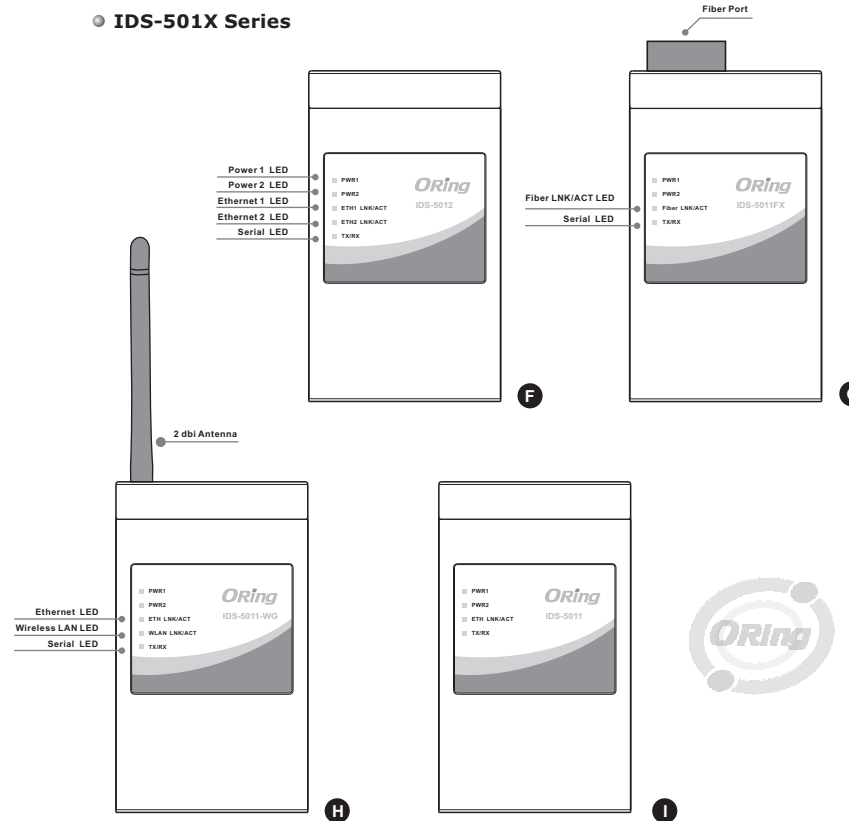
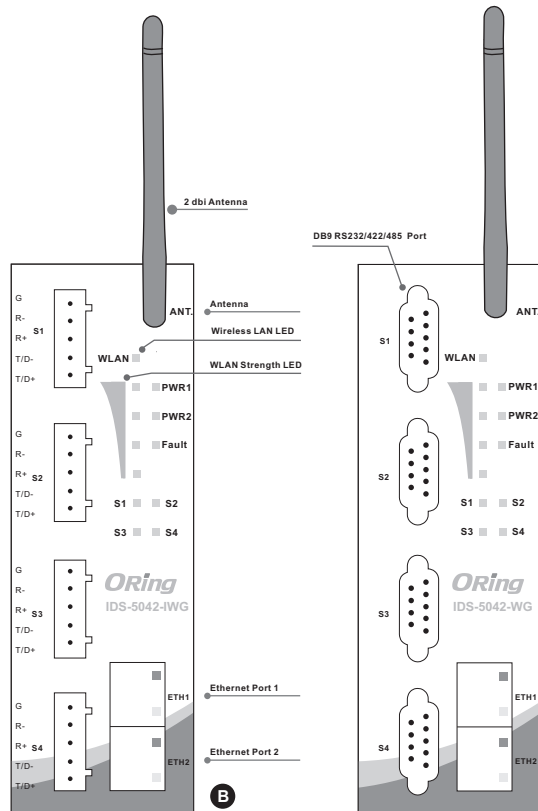


### Accessory

- ① Wall-mounted kit (for 4 port)
- ② Wall-mounted kit (for 1 port)



#### IDS-501X Series



### Packing list

#### IDS-5042 Series

Model name	Front Panel	Model Description	Accessory
IDS-5042-I+	A	Industrial secured 4-port isolated RS422/485 to 2x10/100TX with 1x P.O.E. Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 6, ⊗ X 1, ⊗ X 4, ⊗ X 2, ⊗ X 1, ⊗ X 1
IDS-5042-IWG	B	Industrial secured 4-port isolated RS422/485 to 802.11b/g & 2x10/100TX Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 6, ⊗ X 1, ⊗ X 4, ⊗ X 2, ⊗ X 1, ⊗ X 1
IDS-5042-WG	C	Industrial secured 4-port RS232/422/485 to 802.11b/g & 2x10/100TX Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 6, ⊗ X 1, ⊗ X 2, ⊗ X 1, ⊗ X 1
IDS-5042	D	Industrial secured 4-port RS232/422/485 to 2x10/100TX Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 6, ⊗ X 1, ⊗ X 2, ⊗ X 1, ⊗ X 1
IDS-5042+	E	Industrial secured 4-port RS232/422/485 to 2x10/100TX with 1x P.O.E. Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 6, ⊗ X 1, ⊗ X 2, ⊗ X 1, ⊗ X 1

#### IDS-501X Series

Model name	Front Panel	Model Description	Accessory
IDS-5012	F	Industrial secured 1-port RS232/422/485 to 2x10/100TX Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 3, ⊗ X 1, ⊗ X 2, ⊗ X 1, ⊗ X 1
IDS-5011F-MM	G	Industrial secured 1-port RS232/422/485 to 1x100FX Serial Device Server (Multi mode)	⊗ X 1, ⊗ X 1, ⊗ X 3, ⊗ X 1, ⊗ X 1, ⊗ X 1
IDS-5011F-SS	G	Industrial secured 1-port RS232/422/485 to 1x100FX Serial Device Server (Single mode)	⊗ X 1, ⊗ X 1, ⊗ X 3, ⊗ X 1, ⊗ X 1, ⊗ X 1
IDS-5011	I	Industrial secured 1-port RS232 to 1x10/100TX Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 3, ⊗ X 1, ⊗ X 1, ⊗ X 1, ⊗ X 1
IDS-5011-WG	H	Industrial secured 1-port RS232/422/485 to 802.11b/g & 1x10/100TX Serial Device Server	⊗ X 1, ⊗ X 1, ⊗ X 3, ⊗ X 1, ⊗ X 1, ⊗ X 1, ⊗ X 1