

DS-712/DS-715

Serial-to-Ethernet Device Server

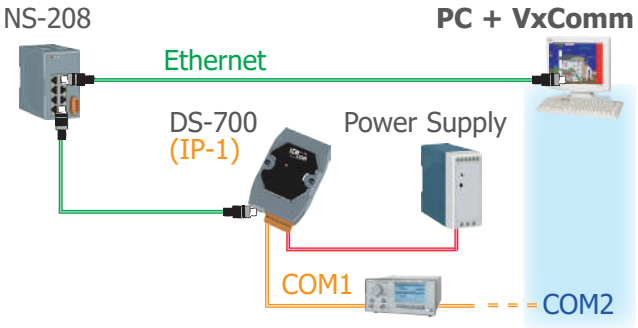
Features

- Incorporate Serial Devices in an Ethernet networkay
- Application Modes: Virtual COM, TCP Server, TCP Client
- Virtual COM supports 32-bit and 64-bit Windows 7 SP1/10/2012/2016
- High Performance Device Server
- Watchdog Timer suitable for use in harsh environments
- Power Reverse Polarity Protection
- Serial Port +/-4 kV ESD Protection Circuit
- Built-in High Performance MiniOS7 from ICP DAS
- Low power consumption
- 10/100 Base-TX Ethernet, RJ-45 Port (Auto-negotiating, auto MDI/MDI-X, LED indicator)
- Palm-Sized

Introduction

The DS-700 is a series of Serial-to-Ethernet Device Servers that are designed for linking RS-232/422/485 devices to an Ethernet network. By using the VxComm Driver/Utility, the built-in COM port of the DS-700 series can be virtualized to a standard PC COM port in Windows. By virtue of its protocol independence, a small size and flexibility, the DS-700 series meets the demands of virtually any network-enabled application.

The DS-712 is equipped with a male DB-9 connector and supports a 5-wire RS-232 port, while the DS-715 is equipped with a removable terminal block connector and supports a 4-wire RS-422 port or a 2-wire RS-485 port with 2000 Vrms isolation.



System Specifications

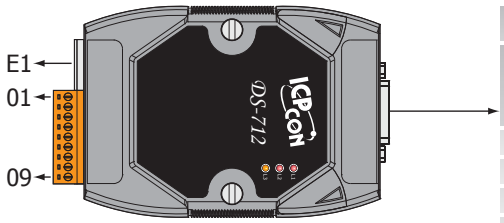
Models		DS-712	DS-715
CPU			
CPU		80186, 80 MHz or compatible	
Built-in Watchdog Timer		Yes	
Communication Interface			
COM1	Non-isolated	RS-232 (TxD, RxD, RTS, CTS, GND)	–
	Isolated (2000 Vrms)	–	RS-422 (TxD+, TxD-, RxD+, RxD-); RS-485 (D+, D-)
Ethernet		10/100 Base-TX, RJ-45 port (Auto-negotiating, auto MDI/MDI-X, LED indicator)	
COM Port Formats			
Data Bit		7, 8	
Parity		None, Even, Odd, Mark, Space None parity is required when using 8 data bits and 2 stop bits.	
Stop Bit		1, 2	
Baud Rate		115200 bps max.	
LED Indicators			
L1		Run (Red)	
L2		Link/Act (Red)	
L3		10/100M (Orange)	

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Models	DS-712	DS-715
Power		
Protection	Power Reverse Polarity Protection	
Required Supply Voltage	+12 VDC ~ +48 VDC (non-regulated)	
Power Consumption	2.0 W	
Mechanical		
Dimensions (W x L x H)	72 mm x 35 mm x 118 mm	72 mm x 35 mm x 124 mm
Installation	DIN-Rail or Wall mounting	
Environment		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-40 °C ~ +80 °C	
Humidity	5 ~ 90% RH, non-condensing	

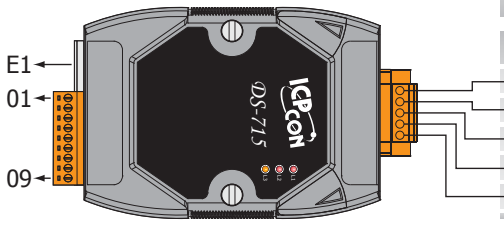
Pin Assignments

Terminal No.	Pin Assignment
E1	
01	N/A
02	N/A
03	N/A
04	N/A
05	INIT*
06	N/A
07	N/A
08	(R)+Vs
09	(B)GND



COM1: (RS-232)

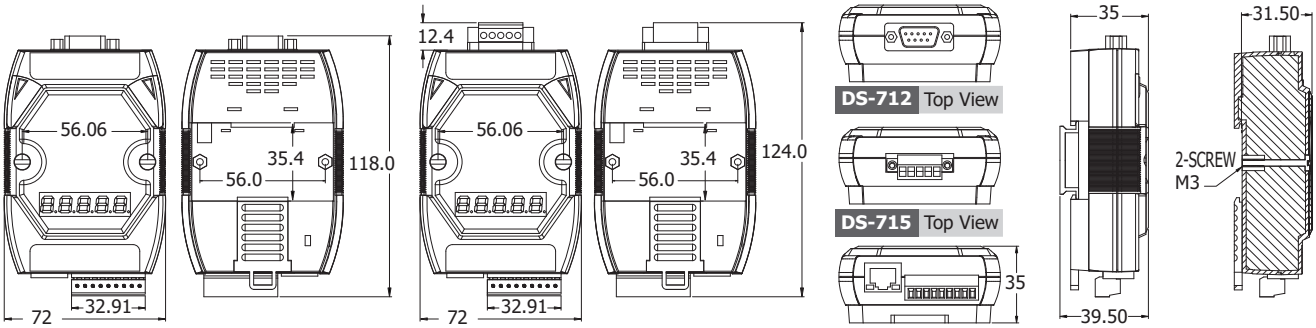
Pin Assignment	Terminal No.		Pin Assignment
GND	05	09	--
--	04	08	CTS
TxD	03	07	RTS
RxD	02	06	--
--	01		



COM1 (RS-422/485)

- F.G.
- Tx+/D+
- Tx-/D-
- Rx+
- Rx-

Dimensions (Units: mm)



DS-712 Front View | DS-712 Rear View | DS-715 Front View | DS-715 Rear View | DS-712 Top View | DS-715 Top View | DS-712/DS-715 Bottom View | DS-712/DS-715 DIN-Rail Mounting | DS-712/DS-715 Side View

Ordering Information

DS-712 CR	Serial-to-Ethernet Device Server with 1-port RS-232 (RoHS)
DS-715 CR	Serial-to-Ethernet Device Server with 1-port Isolated RS-422/485 (RoHS)

Accessories

GPSU06U-6 CR	Power Supply, 110~240 VAC to 24 VDC/0.25 A, 6 W, two pins USA plug (RoHS)
NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (RoHS)
NS-205PSE CR	Unmanaged 5-port 10/100 Mbps PoE (PSE) Ethernet Switch (RoHS)
DN-09-2F CR	Two Male DB9 to Screw Terminal Board (Pitch= 5.08 mm) with DIN-rail Mounting (RoHS)

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