

Intelligent Serial-to-Ethernet Device Servers

iDS-700

iDS-400

Intelligent Device Servers
Remotely Monitor and Control RS-232/RS-485
Devices via an Ethernet Network



iDS-718i-D

iDS-728iM-T

iDS-448iM-D

Features ▶▶▶

- Simple setup, factory floor devices can be connected to SCADA systems in minutes
- Serial Devices can be monitored and controlled via the Ethernet
- Supports 1/2/4-port RS-232, RS-422 and RS-485 communications
- Web-based configuration and PC Utility
- Serial ESD protection
- Provides Virtual COM (COM port redirection), TCP Server/Client (Max. 32 connections), UDP, Serial Tunnel (Pair connection), Modem Emulator, and RFC2217 application modes.
- Built-in Buzzer, RTC, and Watchdog
- Wide operating temperature range: -25 to +75°C
- Supports SNMP V1, V2c, V3, Trap and MIB-II protocols for network management
- Built-in Hardware-selectable Pull High/Low resistors and Terminal resistors for RS-422/485 ports
- Supports RS-485 Data Direction Control with Self-Tuner Technology
- Includes a Smart Ethernet Port that recognizes both straight and crossover Ethernet Cables
- Reset button for restoring the factory configuration
- RoHS Compliant

Serial Device Server

Introduction

Introducing the All-new Device Server Cost, Performance and Reliability in Total Alignment



The iDS product range is the 3rd generation of Device Servers from ICPDAS. It is designed for rugged, industrial-level applications, and provides high performance, high reliability and high capacity.

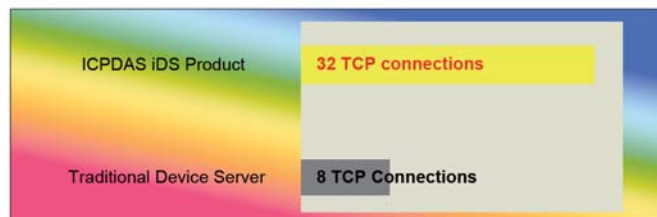
The iDS product range provides a complete Ethernet service, as well as 1-, 2-, and 4-port RS-232/RS-422/RS-485 interfaces that allow any existing serial devices to be connected to an Ethernet network.

Industry 4.0 is Coming

Serial-to-Ethernet services have become more critical than ever before



iDS Product

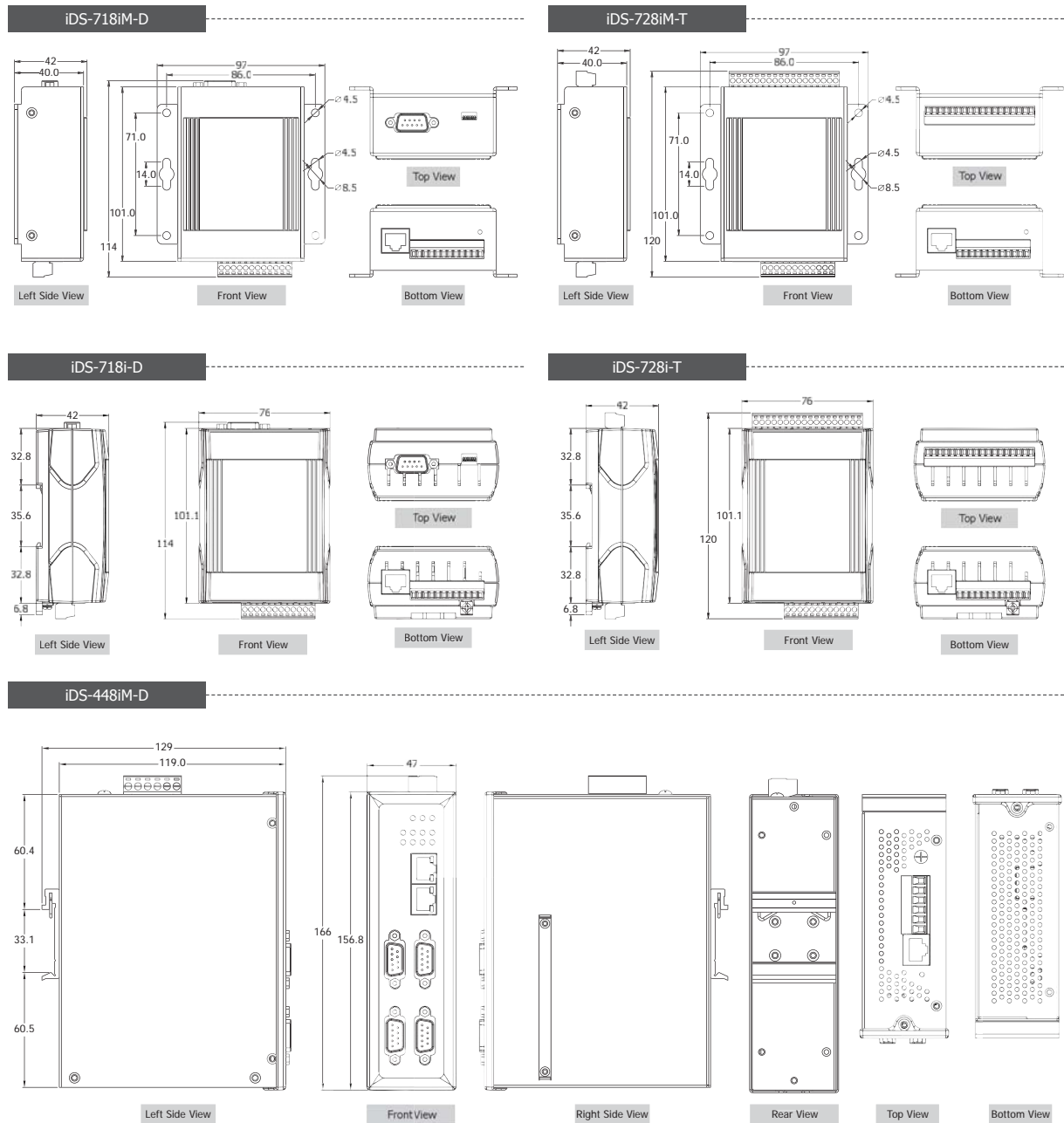


More connections mean greater connectivity for integration with the Internet of Things

Specifications

Models	iDS-718i-D	iDS-728i-T	iDS-718iM-D	iDS-728iM-T	iDS-448iM-D
CPU Module					
CPU	32-bit RISC, 720 MHz				
RAM	256 MB DDR3				
Flash	256 MB				
Peripheral	microSD, RTC, 64-bit Serial Number, Watchdog, Buzzer				
Communication Interface					
COM1	5-wire RS-232/422/485 (Isolated)				8-wire RS-232/422/485 (Isolated)
COM2	-	5-wire RS-232/422/485 (Isolated)	-	5-wire RS-232/422/485 (Isolated)	8-wire RS-232/422/485 (Isolated)
COM3	-	-	-	-	8-wire RS-232/422/485 (Isolated)
COM4	-	-	-	-	8-wire RS-232/422/485 (Isolated)
Ethernet	10/100 Base-TX, RJ-45 port (Auto-negotiating, Auto MDI/MDI-X, LED indicators), PoE (IEEE 802.3af, Class 1)				2-port 10/100 Base-TX Ethernet Switch with LAN Bypass, RJ-45 port (Auto-negotiating, Auto MDI/MDI-X, LED indicators), PoE (IEEE 802.3af, Class 1)
COM Port Signals					
3-wire RS-232	Rx, Tx and GND				
5-wire RS-232	Rx, Tx, CTS, RTS and GND				
8-wire RS-232	Rx, Tx, CTS, RTS, DCD, DSR, DTR, and GND				
RS-422/485	Tx+, Tx-, Rx+, Rx- and GND/Data+, Data- and GND				
RS-485	Data+, Data- and Iso.GND				
COM Port Formats					
Data Bits	5, 6, 7, 8				
Parity	None, Even, Odd, Mark, Space				
Stop Bits	1, 1.5, 2				
Baud Rate	921.6 kbps Max.				
Flow Control	RTS/CTS, XON/XOFF				
Pull High/Low Resistor	Switch-selectable (1 kΩ for RS-422/485, Non-Resistor for RS-232)				
Power					
ESD Protection	Yes (with Frame Ground)				
Protection	Power input reverse polarity protection				
Required Supply Voltage	+12 V _{DC} ~ +48 V _{DC} (non-regulated) or PoE (IEEE 802.3af, Class 1)				
Power Consumption	3.5 W				
Software					
Protocols	ICMP, IPv4, TCP, UDP, DHCP, BOOTP, Telnet, SSH, FTP, SFTP, DNS, SNMP V1/V2c/V3, HTTP, SMTP, ARP				
Configuration Method	Web, Serial Console, Telnet/SSH Console, eSearch Utility for Windows				
Virtual COM for Windows	Windows XP/2003/2008/7/8 x86/x64, 2012 x64, XP Embedded				
Virtual COM for Linux	Linux kernel 2.4.x, 2.6.x, 3.x				
SNMP Standards	RFC1213 MIB-II, RFC1317				
Application Modes	Virtual COM, TCP Server, TCP Client, UDP, Pair Connection, RFC2217, Terminal, Reverse Telnet, TCP Modem				
Mechanical					
Dimensions (W x H x D)	76 mm x 114 mm x 42 mm (97 mm x 114 mm x 42 mm for "M" versions)		76 mm x 120 mm x 42 mm (97 mm x 120 mm x 42 mm for "M" versions)		129 mm x 166 mm x 47 mm
Installation	DIN-Rail				
Casing	Plastic (Metal for "M" versions)				
Environment					
Operating Temperature	-25 °C ~ +75 °C				
Storage Temperature	-40 °C ~ +80 °C				
Humidity	5 ~ 90% RH, non-condensing				

Dimensions (Units: mm)



Ordering Information

iDS-718i-D CR	Intelligent Device Server with 1 RS-232/422/485 (Isolated, RoHS, DB9)
iDS-718iM-D CR	Intelligent Device Server with 1 RS-232/422/485 (Isolated, Metal Case, RoHS, DB9)
iDS-728i-T CR	Intelligent Device Server with 2 RS-232/422/485 (RoHS, Terminal block)
iDS-728iM-T CR	Intelligent Device Server with 2 RS-232/422/485 (Metal Case, RoHS, Terminal block)
iDS-448iM-D CR	Intelligent Device Server with 4 RS-232/422/485 (Metal Case, RoHS, DB9)

Accessories

GPSU06U-6 CR	24 Vdc/0.25 A, 6 W Power Supply
MDR-20-24 CR	24 Vdc/1 A, 24 W Power Supply with DIN-R
DIN-KA52F-48 CR	48V/0.52A, 25 W Power Supply with DIN-Rail Mounting (RoHS, for NS-205PSE)
CA-0903	9-Pin Female D-Sub and RS-232 Connector Cable, 30 cm Cable
CA-0910	9-Pin Female D-Sub and 3-wire RS-232 Cable, 1 m Cable
NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (RoHS)
NS-205PSE CR	Unmanaged Ethernet Switch with 4 PoE Ports and 1 RJ-45 Uplink (RoHS)