

# IDS-2102

## 1 RS-232/422/485 port to 2 10/100TX Ethernet Device Server

- Dual power Inputs by 12~48VDC
- HTTPS and SSH function ensure security
- Event warning by Syslog, E-mail, SNMP Trap, and Beeper
- IP-30 metal case protection, DIN Rail & Wall Mountable



### OVERVIEW

The Lantech IDS-2102 is a device server, which is able to convert one RS232/422/485 port to two 10/100BaseTX Ethernet connection, enables user to remotely manage and configure device servers via Internet. It supports two DC input power, which can backup power for device server from breakouts.

The Lantech IDS-2102 is designed with the redundant Ethernet port to securely protect the network connection or set with 2-port 10/100 LAN to uplink the network connection. Featured with HTTPS and SSH function, IDS-2102 can ensure the

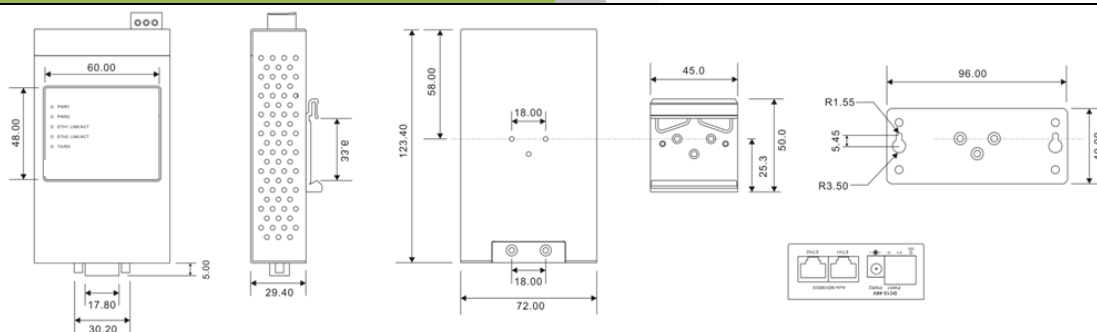
access security from intruder. Unique "DS-Tool" Windows utility is able to discover, configure and manage single or multiple Lantech device servers simultaneously.

The IDS-2102 supports SNMP and SMTP functions, which can automatically send alert events to predefined email addresses. The versatile serial operation modes of IDS-2102 such as Virtual Com up to 5 PCs, TCP Host and Client, UDP Host/Client are applicable in POS, Card Reader, Medial Instrument, Power Utility and PLC Automation applications.

### FEATURES & BENEFITS

- Smart 1-port RS-232/ 422/ 485 port to 2 10/ 100TX Ethernet Device Server
- DS-Tool Windows utility for Auto device discovery, device setting and monitoring
- Maximum series speed up to 460.8Kbps
- Versatile serial operation options: Virtual Com, Serial tunnel, TCP Serial, TCP Client, UDP
- One port simultaneous Virtual COM, TCP Server, TCP Client connections
- Configuration by Windows, Web-browser, and Telnet
- Security: HTTPS and SSH
- Event warning by Syslog, E-mail, SNMP Trap, and Beeper
- Virtual COM driver for Windows NT/2000/XP/2003
- Fixed TTY driver for Linux
- Dual power Inputs by 12~48VDC Terminal Block and DC jack
- Built-in 1.5KV magnetic isolation protection
- Serial Line Protection: 15KV ESD for all signal
- IP-30 metal case protection, DIN Rail & Wall Mountable
- Operation temperature: -20°C to 60°C
- Storage temperature : -40°C to 85°C

### DIMENSIONS (unit=mm)



Datasheet Version 1.0

**SPECIFICATION**

LAN	Ethernet: 2 10/100 Mbps, RJ-45 (Redundant mode, Switch mode) Protection: Built-in 1.5KV magnetic isolation	Event notification	Email/SNMP trap/Beeper SNMP Trap: Cold/ Warm Star DSR, DCD changed IP Changed Authentication Fail SNMP Response: System MIB Interface MIB ICMP, IP, TCP MIB UDP MIB RS-232 MIB
Serial	1 RS-232/ 422/ 485 port(S/W selectable), male DB-9 type RS-232 Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Serial Line Protection: 15KV ESD for all signals	Utilities	DS-Tool for Windows NT/2000/XP/2003 Serial Management Tool x64 for Windows Win 7/x64 OS  -->Device discovery -->Auto IP report -->Device setting(run-time change, no rebooting) -->Access control list -->Group setting -->Device monitoring -->Serial port monitoring -->Log info -->Group Firmware update batch
DIP Switch	4 modes available for RS-232,RS-422, RS-485 two-wire, RS-485 four-wire	Virtual COM/ TTY Drivers (WDM mode, configuration in windows device manager)	Windows NT/2000/XP/2003, Linux real TTY driver Windows 95/98, Unix Fixed TTY driver by request* *
Beeper	Beeper for event warning or unit positioning	Management	Web, DS-Tool Utility, SNMP and Telnet
Serial Communication Parameters	Parity: None, Even, Odd, Space, Mark Data bits: 5, 6, 7, 8 Stop bits: 1,1.5, 2 Flow control: RTS/CTS, XON, Speed: 110bps to 460.8Kbps	Serial API Function	Port Control, Input/output Data, Port Status Inquiry
LED	PWR 1 /PWR 2 Fiber Link/ACT : Green TX/RX: Serial Port is receiving data(Orange); Serial Port is transmitting data(Green)	Operation Humidity	5% to 95% (Non-condensing)
Power Supply	Power input 1: 12-48VDC ( 3-pin Terminal Block) Power input 2(redundant power) : 12-48VDC(DC-jack) Power line protection:1KV Burst(EFT), EN 61000-4-4;0.5KV surge, EN 61000-4-5	Operation Temperature	-20°C-60°C / -4°F-140°F
Power Consumption	3.55 Watts	Storage Temperature	-40°C-85°C / -40°F-185°F
Regulatory Approval	RoHS	Mechanical Specification	Metal, IP-30
EMI & EMS	FCC Class A, CE Class A 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	Case Dimension	72mm(W) x 29mm (D) x 123.4mm(H)
Safety	N/a	Weight	327 g
Stability Testing	IEC60068-2-27 (Shock), IEC60068-2-32 (Free Fall), IEC60068-2-6 (Vibration)	Warranty	5 years
Protocols	ICMP, IP, TCP, UDP, DHCP, BootP, ARP/RARP, Telnet, R Telnet, DNS, SNMP MIB II, HTP, SMTP, SNTP		
Serial mode	Virtual Com/ TCP Server/ TCP Client/ UDP/ Serial Tunnel with advanced of -->TCP Alive Check Timeout -->Inactivity Timeout -->Delimiter for Data Packing -->Force TX Timeout for Data Packing		
4 Hosts simultaneous Connection	Virtual Com/TCP server/TCP Client (only raw data)		
Security	HTTPS, SSH v2, SSL v3(data encryption)* *		

\*Future release  
\*\*Optional

**ORDERING INFORMATION**

- **IDS-2102.....P/N: 8425-010**  
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**OPTIONAL ACCESSORIES**

**DIN Rail Power**

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C-50°C
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C-50°C
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C-50°C
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C-50°C

**Lantech Communications Global Inc.**

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