

# IDS-2101F

1 RS-232/422/485 port to 1 100FX Ethernet Device Server

- Maximum Series Speed up to 460.8Kbps
- Maximum Fiber Distance 2KM, 30KM, 60KM
- Dual DC Inputs Power with Reverse Polarity Protection
- HTTPS and SSH Function Ensure Security



## OVERVIEW

The Lantech IDS-2101F is a device server, which is able to convert one RS232/422/485 port to one 100FX Ethernet connection, enables user to remotely manage and configure device servers via Internet. Two DC input power can backup power for device server from breakouts. The fiber port of Lantech IDS-2101F supports one multi-mode fiber SC port, with maximum 2KM communication distance, or single-mode fiber SC port, with maximum 30 or 60KM distance.

Lantech IDS-2101F is designed with redundant host devices (Virtual COM) up to 5 PC securely protects the data. Featured

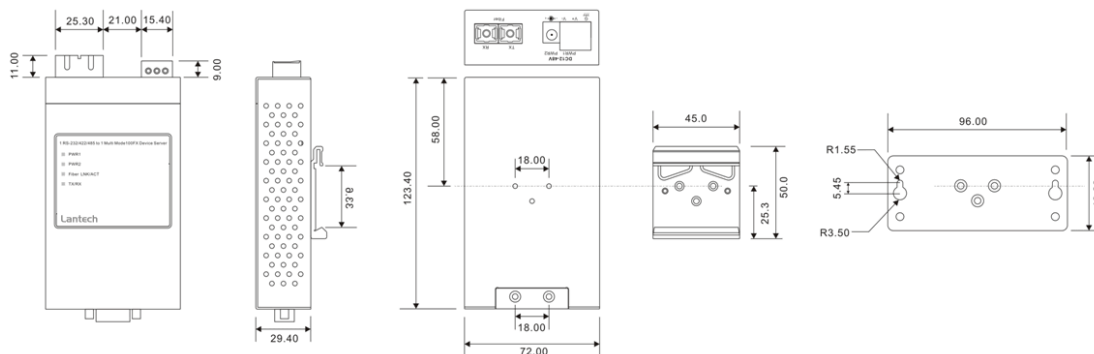
with HTTPS and SSH function, IDS-2101F can ensure the access security from intruder, providing the flexibility for device management as well. Unique Windows utility "DS-Tool" is able to discover, configure, and manage single or multiple devices.

Lantech IDS-2101F supports SNMP and SMTP simultaneously, which can automatically send alert events to predefined email addresses. The versatile serial operation modes of IDS-2101F such as Virtual Com, TCP Host and Client, UDP Host/Client are applicable in POS, Card Reader, Medial Instrument, Power Utility and PLC Automation applications.

## FEATURES & BENEFITS

- 1 RS-232/422/485 port to 1 100FX Ethernet Device Server
- X-Ware 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 Server, TCP Client, UDP
- One port simultaneous Virtual COM, TCP Server, TCP Client connections
- Configuration by Windows, Web-browser, Telnet
- Security: HTTPS and SSH
- Event warning by Syslog, E-mail, SNMP Trap, and Beeper
- 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 case protection, DIN Rail & Wall Mountable

## DIMENSIONS (unit=mm)



**SPECIFICATION**

LAN	Fiber: 1 100FX Protection: Built-in 1.5KV magnetic isolation	Serial Tunnel with advanced of • TCP Alive Check Timeout • Inactivity Timeout • Delimiter for Data Packing • Force TX Timeout for Data Packing
Optical Fiber	Distance: • Multi mode: 0 to 2km,1310nm (62.5/125 μm, 500 MHz*km) • Single mode: 0 to 30km,1310nm (9/125 μm, 3.5 PS/(nm*km)),40, 60km (optional) Min. TX Output: • Multi mode: -20 dBm • Single mode: 0 to 40 Max. TX Output: • Multi mode: -14 dBm • Single mode: 0 to 40 km, 0 dBm Sensitivity: • -36 to -32 dBm (Single) • -34 to -30 dBm (Multi)	4 Hosts simultaneous Connection Virtual Com/ TCP server/ TCP Client (only raw data)
Serial	No. of ports: 1 RS-232/ 422/ 485 port, male DB-9, S/W selectable RS-232 Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Serial Line Protection: 15 KV ESD for all signals	Security HTTPS, SSH v2, SSL v3 (data encryption)**
DIP Switch	4 modes available for RS-232, RS-422, RS-485 two-wire, RS-485 four-wire	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
Beeper	Beeper for event warning or unit positioning	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
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/XOFF, Speed: 110bps to 460.8Kbps	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**
LED	PWR 1 /PWR 2 Fiber Link/ACT : Green TX/RX: Serial Port is receiving data (Orange); Serial Port is transmitting data (Green)	Management Web, DS-Tool Utilities, SNMP and Telnet
Power Supply	Power Input 1:12 to 48 VDC ( 3-pin Terminal Block) Power Input 2 (Redundant Power):12 to 48VDC (Φ 2.0 DC Jack) Power Line protection: • 1 KV Burst (EFT), EN61000-4-4 • 0.5 KV Surge, EN61000-4-5	Serial API Function Port Control, Input/output Data, Port Status Inquiry
Power Consumption	4 Watts	Operation Temperature Standard: -20°C~60°C (-4°F~140°F)
Overload current protection	Present	Storage Temperature -40°C~85°C (-40°F~185°F)
Reverse polarity protection	Present on terminal block	Case Material, IP-30 protection
Regulatory Approval	RoHS	Dimension 72mm(W) x 29mm (D) x 123.4mm(H) ( 2.83 x 1.26 x 3.94 in)
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	Weight 325 g
Safety	n/a	Warranty 5 years
Stability Testing	IEC60068-2-27 (Shock), IEC60068-2-32 (Free Fall), IEC60068-2-6 (Vibration)	
Protocols	ICMP, IP, TCP, UDP, DHCP, BootP, ARP/RARP, Telnet, R Telnet, DNS, SNMP MIB II, HTP, SMTP, SNMP	
Serial mode	Virtual Com/ TCP Server/ TCP Client/ UDP/	

\*Future release  
\*\*Optional

**ORDERING INFORMATION**

- **IDS-2101F (SC, MM 2KM).....P/N: 8425-001**  
1 RS-232/422/485 port to 1 100FX (SC, MM 2Km) Device Server multi mode fiber 2KM
- **IDS-2101F (SC, SM 30KM).....P/N: 8425-002**  
1 RS-232/422/485 port to 1 100FX (SC, SM 30Km) Device Server single mode fiber 30KM
- **IDS-2101F (SC, SM 60KM).....P/N: 8425-005**  
1 RS-232/422/485 port to 1 100FX (SC, SM 60Km) Device Server single mode fiber 60KM

**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.

www.lantechcom.tw  
info@lantechcom.tw

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