

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 or 30KM
- 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 30KM distance.

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

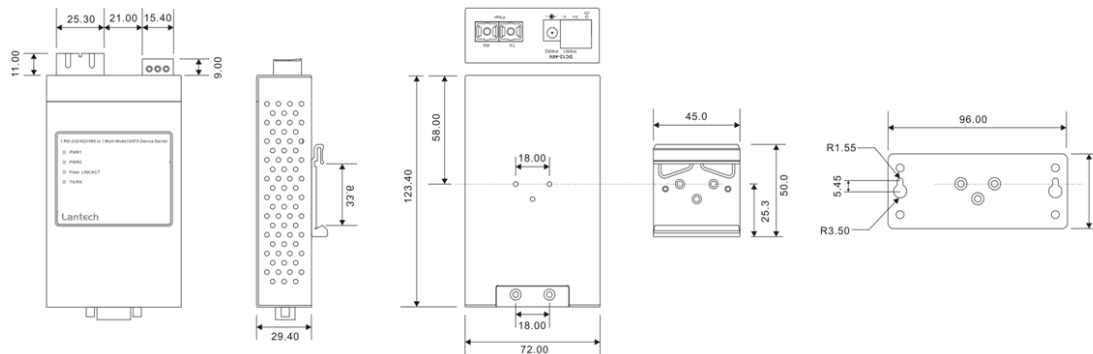
with HTTPS and SSH function, IDS-2101F can ensure the access security from intruder, providing the flexibility for device management as well. Unique Windows utility "DS-Tool" is able to discover, configure, and manage single or multiple devices.

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 | Protocols | ICMP, IP, TCP, UDP, DHCP, BootP, ARP/RARP, Telnet, RTelnet, DNS, SNMP MIB II, HTTP, SMTP, SNTF |
| Optical Fiber | Distance: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Multi mode: -20 dBm Single mode: 0 to 40 Max. TX Output: <ul style="list-style-type: none"> Multi mode: -14 dBm Single mode: 0 to 40 km, 0 dBm Sensitivity: <ul style="list-style-type: none"> -36 to -32 dBm (Single) -34 to -30 dBm (Multi) | Serial mode | Virtual Com/ TCP Server/ TCP Client/ UDP/ Serial Tunnel with advanced of <ul style="list-style-type: none"> TCP Alive Check Timeout Inactivity Timeout Delimiter for Data Packing Force TX Timeout for Data Packing |
| 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 | 4 Hosts simultaneous Connection | Virtual Com/ TCP server/ TCP Client (only raw data) |
| DIP Switch | 4 modes available for RS-232, RS-422, RS-485 two-wire, RS-485 four-wire | Security | HTTPS, SSH v2, SSL v3 (data encryption)** |
| Beeper | Beeper for event warning or unit positioning | Event notification | Email/ SNMP trap/ Beeper SNMP Trap: <ul style="list-style-type: none"> Cold/ Warm Star DSR, DCD changed IP Changed Authentication Fail SNMP Response: <ul style="list-style-type: none"> System MIB Interface MIB ICMP, IP, TCP MIB UDP MIB RS-232 MIB |
| 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 | Utilities | DS-Tool for Windows NT/2000/XP/2003 <ul style="list-style-type: none"> 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 |
| LED | PWR 1 /PWR 2 Fiber Link/ACT : Green TX/RX: Serial Port is receiving data (Orange); Serial Port is transmitting data (Green) | Virtual COM/ TTY Drivers (WDM mode, configuration in windows device manager) | <ul style="list-style-type: none"> Windows NT/2000/XP/2003, Linux real TTY driver Windows 95/98, Unix Fixed TTY driver by request** |
| 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: <ul style="list-style-type: none"> 1 KV Burst (EFT), EN61000-4-4 0.5 KV Surge, EN61000-4-5 | Management | Web, DS-Tool Utilities, SNMP and Telnet |
| Power Consumption | 4 Watts | Serial API Function | Port Control, Input/output Data, Port Status Inquiry |
| Overload current protection | Present | Operation Temperature | Standard: -20°C~60°C (-4°F~140°F) |
| Reverse polarity protection | Present on terminal block | Storage Temperature | -40°C~85°C (-40°F~185°F) |
| Regulatory Approval | RoHS | Case | Material, IP-30 protection |
| 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 | Dimension | 72mm(W) x 29mm (D) x 123.4mm(H) (2.83 x 1.26 x 3.94 in) |
| Safety | n/a | Weight | 325 g |
| Stability Testing | IEC60068-2-27 (Shock), IEC60068-2-32 (Free Fall), IEC60068-2-6 (Vibration) | Warranty | 5 years |

*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

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 (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°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 (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw

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