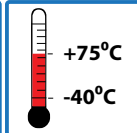
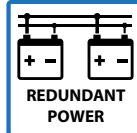


HARDENED 1 PORT SECURE SERIAL TO ETHERNET DEVICE SERVER WITH 1xRS-232/422/485 AND 2x10/100BASE-T(X)



DEVICE SERVER



FEATURES

- Operating Modes : Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Redundant multiple host devices :
5 host devices : Virtual COM, TCP Server, TCP Client
mode 4 IP ranges : UDP
- NAT Pass-Through : the user can manage IDS-5012 through NAT router
- Security : SSL data encryption ; secured management by HTTPS and SSH
- IP Access : IP White List
- Internet Communication : PPPoE authentication
- Update DNS Hostname : DDNS
- Dual redundant Ethernet port support redundant mode (Recovery time < 10ms)
- Ethernet switch mode enable Daisy Chain
- Event Warning by Syslog, Email, SNMP trap, and Beeper
- Configurable by Web-based and Windows utility (SpectraDS)
- Various Windows OS supported :
Windows NT/2000/ XP/ 2003/VISTA(32/64bit)/Windows 7(32/64bit)

DESCRIPTION

Meridian's DS1FT2 is an innovative secure 1-port RS-232/422/485 to 2 port LAN serial to Ethernet device server featuring the standard features of device server, such as TCP/IP interface and versatile operation modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP. In addition, the Windows utility, SpectraDS could configure multiple devices and set up the mappings of Virtual Com.

The features of NAT Router Pass-Through, DDNS, and PPPoE make it more convenient for administrators to configure this device server through NAT router from different IP domains or Internet via modem remotely.

On the other hand, DS1FT2 can simultaneously transfer data up to 5 redundant hosts PC to avoid Ethernet connection breakdown or any hosts PC fails.

Further, DS1FT2 features HTTPS, SSH, and SSL encryption to assure the security of critical data transmission.

DS1FT2 supports RS-232/422/485 and provides dual redundant power inputs, 12~48 VDC, on DC power jack and terminal block to guarantee a nonstop operation. With wide operating temperature, -40~75°C, and rugged IP-30 housing design, DS1FT2 could operate in the harsh industrial environment.

Therefore, DS1FT2 is the best solution to the high demand of secure serial to Ethernet critical data communication.

SPECIFICATIONS

Physical Ports

| | |
|---|---|
| 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX | 2 |
|---|---|

Serial Ports

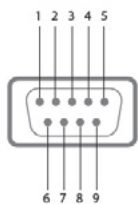
| | |
|------------------|--|
| Connector | DB9(male) x 1 |
| Operation Mode | RS-232 / RS-422 / 4(2)-Wire RS-485. Which can be configured by DS-Tool |
| Serial Baud Rate | 110 bps to 460.8 Kbps |
| Data Bits | 5, 6, 7, 8 |
| Parity | odd, even, none, mark, space |
| Stop Bits | 1, 1.5, 2 |
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND |
| RS-422 | Tx+, Tx-, Rx+, Rx-, GND |
| RS-485 (4-wire) | Tx+, Tx-, Rx+, Rx-, GND |
| RS-485 (2-wire) | Data+, Data-, GND |
| Flow Control | XON/XOFF, RTS/CTS, DTR/DSR |

Network Features

| | |
|-------------------|---|
| Network Protocols | ICMP, IP, TCP, UDP, DHCP, BOOTP, SSH, DNS, SNMP V1/V2c, HTTPS, SMTP, SSL, PPPoE, DDNS |
|-------------------|---|

LED indicators

| | |
|-------------------------------------|---|
| Power indicator | PWR 1(2) / Ready: Red On : Power is on and booting up. Red Blinking : Indicates an IP conflict, or DHCP or BOOTP server did not respond properly. Green On : Power is on and functioning Normally. Green Blinking : Located by Administrator. |
| 10/100Base-T(X) RJ45 Port Indicator | Green for port Link/Act at 100Mbps. Amber for port Link/Act at 10Mbps. |
| 100Base-FX fiber port indicator | Green for port Link/Act at 100Mbps. Amber for port Link/Act at 10Mbps. |



| Pin # | RS-232 | RS-422 | RS-485 (4 wire) | RS-485 (2 wire) |
|-------|--------|--------|-------------------|-------------------|
| 1 | DCD | RXD - | RXD - | - |
| 2 | RXD | RXD + | RXD + | - |
| 3 | TXD | TXD + | TXD + | DATA + |
| 4 | DTR | TXD - | TXD - | DATA - |
| 5 | GND | GND | GND | GND |
| 6 | DSR | - | - | - |
| 7 | RTS | - | - | - |
| 8 | CTS | - | - | - |
| 9 | RI | - | - | - |

RS-232 mode act as DTE

| | |
|---------------------|---|
| Serial TX / RX LEDs | Red : Serial port is receiving data Green : Serial port is transmitting data |
|---------------------|---|

Power

| | |
|-----------------------------|--|
| Redundant Input Power | Dual DC inputs. 12~48 VDC on 3-pin terminal block and power jack |
| Power Consumption (Typ.) | 4 watts |
| Overload Current Protection | Yes |
| Reverse polarity protection | Present on terminal block |

Physical Characteristic

| | |
|-----------------------|---|
| Enclosure | IP-30 |
| Dimension (W x D x H) | 72(W) x 29.4(D) x 123.4(H) mm (2.83x1.16x4.86 inch.) |
| Weight (g) | 327 g (0.72 lb.) |

Environmental

| | |
|-----------------------|----------------------------|
| Storage Temperature | -40 to 85°C (-40 to 185°F) |
| Operating Temperature | -40 to 75°C (-40 to 167°F) |
| Operating Humidity | 5% to 95% Non-condensing |

Regulatory approvals

| | |
|--------------|--|
| EMI | FCC Part 15, CISPR (EN55022) class A |
| EMS | 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 |
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-32 |
| Vibration | IEC60068-2-6 |
| Safety | EN60950-1 |
| MTBF (Hours) | (MIL-HDBK-217F2, GB, GC, 25°C) 533,615 |

Ordering Information

| Products | Part Number | Description |
|-------------------------|-----------------|---|
| | DS1FT2 | Hardened 3 port secure serial to Ethernet device server with 1xRS-232/422/485 and 2x10/100Base-T(X) |
| Power supplies (option) | PSH24DC24 WP-24 | PSH24DC24 - 24VDC @ 1 Amp (24 Watts) 24 VDC wall plug adapter (1000 mA), 110-220 VAC input |

Packing List

| | |
|--------------------------|---|
| DS1FT2 | 1 |
| Wall-Mount Kit | 1 |
| Quick Installation Guide | 1 |
| Din-Rail Kit (attached) | 1 |
| M-Ring Tool CD | 1 |