



Datasheets

Quatech Value Line Serial Device Servers

SSE-410D: 1 Port RS-232/422/485 Serial Device Server

DSE-410D: 2 Port RS-232/422/485 Serial Device Server



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CONNECT WITH RELIABILITY



Quatech Serial Device Server Model SSE-410D

Network-Enable Any Serial Device

Now you can easily attach any serial device to your LAN. Use Quatech's SSE-410D Serial Device Server technology to put your serial ports to work for you. Imagine the ability to communicate with every piece of equipment from any networked PC. Eliminate the site visits made just to find a need to make a minor configuration change. Reduce service calls and increase productivity by knowing what your equipment is doing before you get a trouble report. Spend more time managing your business instead of traveling to identify problems on remotely located equipment.

Do you have equipment with serial ports that you've left unconnected? Much of today's high-tech equipment ships with a built-in serial port for programming, monitoring or troubleshooting. 80% of those serial ports are left unconnected, either because a dedicated PC is not available or because of inefficient procedures which call for site visits to make the connection. With Quatech's SSE-410D Serial Device Server, you can put all of those ports to work for you today.

Simply connect the serial port on the SSE-410D to the equipment's serial port, and connect the Ethernet port to your LAN. You won't need to customize your equipment's software, as the Ethernet portion of the COM link is invisible to the application. After installing our Virtual Serial Port software, your PC will think the equipment is connected on a local COM port, even when accessing it over the Internet!

Multiple Electronic Interface and LAN/WAN support

Quatech's new SSE-410D integrates the benefits of Ethernet communications with all your existing serial devices by offering you the choice of three serial interfaces, RS-232, RS-422, and RS-485. The Ethernet connection will auto-select 10BaseT or 100BaseTX.

The SSE-410D provides a Windows® host control over serial devices located virtually anywhere on a TCP/IP or UDP/IP Ethernet connection. It even gives authorized users control of the connected serial device or the Configuration Menu from outside the SSE-410D's local network, such as over an Intranet or the Internet.

Operation Modes

Virtual COM port (Windows 98/Me/NT/2000/XP)
TCP/IP socket and tunneling
UDP/IP socket and tunneling

Features

- DIN rail or Panel mount
- Supports 10/100 Mbps Ethernet
- Supports RS-232, RS-422, and RS-485 serial interface
- Supports LAN and WAN communications
- In Server mode, supports individual client sessions for security
- Management access password protected
- Virtual COM drivers for Windows, support for other O/S in socket mode

Product Specifications

Serial Memory: 8 K bytes
Serial Connection: DB9 male – DTE configuration
Ethernet Connection: RJ-45

Interface

Serial: One-RS-232, RS-422, OR RS-485, Dip Switch Selectable
LAN: 10/100 Mbps Auto-detecting – 10 Base T, 100 Base TX
Supported Signals: RS-232 - TX, RX, RTS, CTS, DTR, DSR, DCD, GND
RS-422 - TX+, TX-, RX+, RX-, RTS+, RTS-, CTS+, CTS-, GND
RS-485 - Data +, Data –
Data Rate: 110 bps to 230.4 kbps
Protocols: TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP
Management: Configuration Manager, Serial Console, Telnet, Upgradeable Firmware

Power & Environment

Power Requirements: 12 VDC @ 200 mA
110VAC to 12VDC 500 mA power supply included
Operating Temperature: 32 to 122 °F (0 to 50 °C)
Storage Temperature: -4 to 140 °F (-20 to 60 °C)
Humidity: 0 - 90% non-condensing
Approvals: CE, FCC
Dimensions: 3.35 x 4.5 x .90 in (8.5 x 11.5 x 2.3 cm)

Heartbeat Connection Ensures Reliable Communications

The SSE-410D provides automatic resumption of the TCP data connection in case of a power failure or loss of an Ethernet connection on either the client or server. TCP port 5300 is reserved for the Heartbeat connection. After a client, either the Virtual COM driver or another SSE-410D, establishes a data connection to a serial device server, it will automatically start the Heartbeat connection.

Once the Heartbeat connection is established, the SSE-410D server sends a signal to the client every 5 seconds. If the signal is not received, the SSE-410D will attempt to reconnect the TCP data connection every 5 seconds until communication is established again.

Without this feature, a device that loses a connection and stops communicating would not be able to reconnect without a person attending to the problem. The Heartbeat feature will only work with Virtual COM and TCP/IP direct connections, and is not available to UDP applications.

SSE-410D Management Software

One of the advanced features of the configuration management software allows easy access to the SSE-410D, to configure desired settings. Although Telnet and Console mode may also be used, when using Windows management access through the configuration menu will be the fastest and easiest.

When the new SSE-410D is connected to the network, just open the management software, click the “Search” button and it will instantly display the serial device server in the window. This is a just one example of the many advanced features we have integrated into the SSE-410D. Call our Technical Support Department for more information.

Accessories

SDS-410D-DIN....DIN-Rail Adapter Clips



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Do you have equipment with serial ports that you've left unconnected? Much of today's high-tech equipment ships with a serial port for programming, monitoring or diagnostics. 80% of the serial ports are left unconnected, often because a person travels to the port to make the connection or a permanent PC is not desirable. With the DSE-410D Serial Device Server, you can put all of those ports to work for you.

Simply connect the DSE-410D to the equipment's serial port, and the Ethernet port to your LAN. Your equipment is now online. It will appear as a local COM port on any networked PC running our Virtual Serial Port software. No software customization required, just run the appropriate software for your equipment.

Industry Applications

Quatech's new DSE-410D integrates the benefits of Ethernet communications with existing serial devices by offering the combination of three serial interfaces, RS-232, RS-422, and RS-485. The Ethernet connection will Auto-Detect 10BaseT or 100BaseTX.

The DSE-410D provides a Windows host control over serial devices located virtually anywhere on a TCP/IP or UDP/IP Ethernet connection. It even gives authorized users control over the connected serial device or the DSE-410D Menu from a WAN such as an Intranet or the Internet, if desired.

Operation Modes

Virtual COM port
TCP/IP socket and tunneling
UDP/IP socket and tunneling

Features

- DIN rail or Panel mount
- Supports 10/100 Mbps Ethernet
- Supports RS-232, RS-422, and RS-485 serial interface
- Supports LAN and WAN communications
- In Server mode, supports individual client sessions for security
- Management access password protected
- Virtual COM drivers for Window NT/98/Me/2000/XP

Product Specifications

Serial Memory: 8 K bytes per port
Serial Connection: 2--DB9 male – DTE configuration
Ethernet Connection: RJ-45

Interface

Serial Port 1: RS-232, RS-422, OR RS-485, Dip Switch Selectable
Serial Port 2: RS-232 only
LAN: 10/100 Mbps Auto-detecting – 10 Base T, 100 Base TX
Supported Signals: RS-232 - TX, RX, RTS, CTS, DTR, DSR, DCD, GND
RS-422 - TX+, TX-, RX+, RX-, RTS+, RTS-, CTS+, CTS-, GND
RS-485 - Data +, Data –
Data Rate: 110 bps to 230.4 kbps
Protocols: TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP
Management: DSE-410D Manager Windows Utility, Serial Console, & Telnet. Firmware is field upgradeable

Power & Environment

Power Requirements: 12 VDC @ 200 mA
110VAC to 12VDC 500 mA power supply included
Operating Temperature: 32 to 122 °F (0 to 50 °C)
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DSE-410D Management Software

One of the advanced features of the management software allows easy access to the DSE-410D to configure desired settings. Although Telnet and Console mode may also be used, access to the DSE-410D's configuration menu through the management software will be the fastest and easiest method.

When the new DSE-410D is connected to the LAN, just open our management software, click the Search button and it will instantly display the DSE-410D in the window. This is a just one example of the many advanced features we have integrated into the DSE-410D. Call one of our knowledgeable Account Managers for more information.



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