



AXIS 2490 Serial Server

Network Access to Serial Devices

With the AXIS 2490 Serial Server it is now possible to extend RS232 full-duplex communication over intranet networks and the Internet, allowing you to fully utilize serial port devices that were previously slaved to a host via a length of cable.

Complete with its own built-in Web server and unique IP address, the AXIS 2490 installs onto any 10 or 100 Mbps TCP/IP network to provide direct network access, control, and management of serial devices.

The AXIS 2490 has two RS232 ports and one RS485/422 port which can be used in either 2 or 4 wire configuration (RS422). Data can be transferred back and forth from several serial devices in multi-drop configuration via the Terminal Block connector. The serial devices are accessed from a standard desktop browser or other application that uses serial or network communication.

Protect earlier investments in non-networked serial devices with the new AXIS 2420 Serial Server – and enjoy serial port access through network connectivity.



- Direct access, configuration and management from a standard Web browser
- Extends RS232 data communication over intranet networks and the Internet
- Supports up to two RS232 ports and one RS485 port
- Password protection with user and IP address filtering



Technical Specification – AXIS 2490 Serial Server

Technical Overview

- Simply assign an IP address using ARP/PING, BOOTP or AXIS Utilities. Access and configure the product using a standard Web browser. Optionally install a COM port redirector software for use with a personal computer client

System Requirements

- The AXIS 2490 uses the standard Internet TCP/IP suite of protocols and can be used with most operating systems: Windows 95/98, Windows NT/2000, Linux, UNIX, Mac, and several others. The only software needed is Internet Explorer 4.x or Netscape Navigator 4.x for configuration and an application supporting TCP/IP or a COM port redirector

Additional Software

- Optionally install commercially available COM port redirector software on your workstation and create a virtual RS232 port that sits anywhere on your network. A COM port redirector allows existing Windows software to access networked attached serial devices. You can download Axis' unsupported Virtual COM Port Driver software for Windows NT, 95, 98 and 2000 free of charge from our Website at: www.axis.com
- The AXIS IP Installer, used to assign IP addresses, is also available from our Website

Supported Protocols

- ARP, BOOTP, TCP, IP, HTTP, ICMP, FTP, and DNS. Raw TCP/IP connections for communication with the attached serial devices. Telnet options can also be enabled for COM port control according to RFC2217. HTTP can be used to communicate with those serial devices that support it

Configuration and Management

- Product configuration and status monitoring using a standard Web browser; such as Microsoft Internet Explorer 4.x or Netscape 4.x. Includes FTP support for uploading and/or downloading product configuration files

Physical Network Connection

- Physical network connection on 10BaseT Ethernet or 100BaseTX Fast Ethernet networks using RJ45 twisted pair cable (Category 5 shielded or unshielded twisted pair cable). Note: Shielded cable is recommended for industrial environments

Operating Environment

- Temperature: +5 to +50 °C
- Humidity: 8-80% RHG, non-condensing

Hardware

- CPU: 32 bit RISC processor (ETRAX 100)
- Flash memory: 2 Mbytes
- RAM: 8 Mbytes
- Ethernet: 10/100Mbit on RJ-45
- Power supply (PS-B)

Mechanical Design

- A stable aluminum casing that can be conveniently mounted on a wall

Metrics

- Height: 27 mm Width: 112 mm Length: 110 mm
- Weight: 320g

Software Upgrades

- Software updates are available free of charge from the AXIS 2490 product pages at www.axis.com

Security

- Password protection and IP address filtering

Power Supply

- Power: 9-24VAC (or DC), 6 VA, via external power supply (included) or on screw terminal block
- Power consumption typically between 2.5 VA and 3.5 VA

Product Warranty

- A one-year warranty is included

Serial Connection

- Two RS232 serial ports: terminated with 9 pin MALE D-SUB connectors, both ports support RXD, TXD, RTS, CTS, DSR, DTR, RI and CD at baud rates up to 115200 bps
- One RS485/422 serial port: supported on a single screw terminal block. Supports baud rates up to 1843200 bps

Pinout:		
1	CD Carrier Detect	(input)
2	RxD Receive Data	(input)
3	TxD Transmit Data	(output)
4	DTR Data Terminal Ready	(output)
5	GND Ground	
6	DSR Data Set Ready	(input)
7	RTS Request To Send	(output)
8	CTS Clear To Send	(input)
9	RI Ring Indicator	(input)

Terminal Block

Pinout:	
1	AC Power
2	AC Power
3	GND
4	RS422 GND (Connected to GND through 100 ohm resistor)
5	RX/TX - A Use pin 5 and 6 for 2-wire RS-485
6	RX/TX+ B Use pin 5 and 6 for 2-wire RS-485
7	TX -
8	TX+

Approvals

- AXIS 2490 Network Serial Server fulfills both industrial and light industrial/commercial EMC standards for both emission and immunity
- Immunity Standards:
EN 55024:1998,
EN 50082-1:1997,
EN 6100-6-2:1999
- Emission Standards:
EN 55022:1994 (CISPR 22:1993 + A1: 1995 + A2: 1996), Class B + A1: 1995 + A2: 1997,
FCC Part 15, Subpart B, Class A
FCC Part 15, Subpart B, Class B, demonstrated by compliance with EN55022: 1994, Class B, AS/NZS3548 (C-Tick). Demonstrated by compliance with CISPR 22: 1993
- Safety:
EN 60950, UL, CSA



For more information visit our website: www.axis.com