AXIS®
COMMUNICATIONS

Axis Host-to-LAN Print Servers

AS/400 and S/390 Printing in a High-Performance Multiprotocol LAN Print Server

P rint Servers

Print to your LAN printers or digital copiers from your IBM Host.

Axis host-to-LAN print servers provide a flexible and cost-effective way to print to LAN printers or digital copiers from AS/400 or Mainframe systems. In addition to support for popular protocols and operating systems, such as NetWare, UNIX and Windows, Axis host-to-LAN print servers deliver world class support for IBM host system printing. The flexibility to choose between multiple print methods including TN3270E and TN5250E, as well as SCS and IPDS data streams, makes Axis the ideal solution for the enterprise network. Axis host-to-LAN print servers enable high-speed printing over Ethernet, Fast Ethernet and Token Ring networks without the need for application changes, host-based conversion software or intermediate servers.

Migrate without compromises

With simultaneous support for SNA and TCP/IP, Axis host-to-LAN print servers offer an excellent migration story as you transition to TCP/IP-based networking. The same print server will work in both environments without compromising control and visibility of the network printer. True bi-directional transport protocols assure a tight and controlled flow of status and data in a direct path between the IBM host system and the printer. Users get the same functionality as from a traditional IBM printer connected over coax or twinax including features such as error recovery, exception notification, job control and end-of-job notification.

Free host system resources

Axis solution is based on the Axis ETRAX 32-bit RISC processor for maximum performance. The concept of distributed data conversion deliver great scalability and helps freeing host system resources for more critical tasks improving overall system throughput. Any matrix, laser and even some ink-jet printers may be used as well as digital copiers.

Take full advantage of your digital copier investment

Axis host-to-LAN print servers come with built in support for digital copiers eliminating the need to modify IBM or UNIX host applications or install additional drivers. With support for finishing options such as stapling, hole punching and copying, any user on the network can enjoy the flexibility and power of a digital copier.

Easy to Use on Multiple Platforms

Axis host-to-LAN print servers support OS/400, OS/390, Windows NT, Windows for Workgroups, Windows 95/98/2000, OS/2, NetWare, more than 20 versions of UNIX and more. In addition, they are easy to set up and will auto-configure to the AS/400.

SNA IPDS SCS TN5250E TN3270E TCP/IP

Print Servers

Technical Specifications

MODELS

AXIS 5470e (Ethernet) Copier model
Standalone 1 port 10/100baseT/ Ethernet print server with advanced TCP/IP and SNA support for non-IPDS and IPDS IBM host system printing. Support for digital copier finishing options

AXIS 5470e (Ethernet) IPDS model
Standalone 1 port 10/100baseT Ethernet print server with advanced TCP/IP and SNA support for non-IPDS and IPDS IBM host system printing

AXIS 5470e (Ethernet) SNA model
Standalone 1 port 10/100baseT Ethernet print server with advanced TCP/IP and SNA support for non-IPDS IBM host system printing

AXIS 5470e (Ethernet) TCP/IP model
Standalone 1 port 10/100baseT Ethernet print server with advanced TCP/IP support for non-IPDS IBM host system printing

AXIS 670e (Token Ring)
Standalone 3 port STP/UTP Token Ring print server with advanced TCP/IP and SNA support for non-IPDS and IPDS IBM host system printing and digital copiers

SUPPORTED SYSTEMS

IBM Mainframe
IBM S/370, S/390, 30xx, 43xx, 47xx, 937x, 81xx. The print server emulates an IBM 3174 control unit and subsequent coax printers when running SNA.

IBM AS/400
The print server emulates an IBM 5494 control unit and subsequent twinax printers when running SNA.

SUPPORTED PROTOCOLS

NetWare
IPX, SAP, RIP, SPX, NCP (extended with NDS), LIP and NDPS

TCP/IP- ASCII Environments
LPD, FTP, Telnet, Reverse Telnet, PROS, BOOTP, ARP, RARP, DHCP, ICMP, IP, TCP, UDP, HTTP and TFTP

TCP/IP in Mainframe Environment
TN3270E, raw TCP/IP, LPR/LPD, PPR/PPD, ASCII, 3270DS, SCS and IPDS data streams

SNA in Mainframe Environment
SNA LU 1 and SNA LU 3 (node type 2.0). IBM 3174 control unit emulation. ASCII, 3270DS, SCS and IPDS data streams

TCP/IP in AS/400 Environment
TN5250E, raw TCP/IP, LPR/LPD, PPR/PPD, ASCII, SCS and IPDS datastreams

SNA in AS/400 Environment
SNA LU 6.2 (node type 2.1). IBM 5494 control unit emulation. ASCII, SCS and IPDS data streams

LAN Manager/LAN Server
NetBIOS/NetBEUI or TCP/IP

Windows
NetBIOS/NetBEUI or TCP/IP

Apple EtherTalk (5470e)

INSTALLATION
Print server resident parameters set using a Web browser, AXIS NetPilot, FTP, HTTP or via a text file sent from the IBM host.

IBM PRINTER EMULATIONS
IBM Mainframe environment: 4332, 4028, 3812 model 2, 3816 model 01S and 01D, 4224, 4230, 3287, 3268, 4214 and 3262

IBM AS/400 environment: 4332, 4028, 3812, 3816, 4214-2, 5224, 5225, 5256, 4230, 5x27-2 KS, 5x27-3 KSSM, 5x27-3 and 5x27-5

NETWORK MANAGEMENT
SNMP-MIB II compliant private enterprise MIB included. Print server status and management via NWAdmin/PCONSOLE and ThinWizard.

LOGICAL CONNECTION
Supports NWay, which provides auto-detection of the network speed. Use of IEEE802.2, IEEE802.3, SNAP and Ethernet II frame types simultaneously.

NETWORK ATTACHMENTS

AXIS 5470e
RJ-45 connector (Category 5 unshielded twisted pair cable) for 10/100baseT Ethernet

AXIS 670e
STP/UTP Token Ring

SECURITY
UNIX: Root password, user access list and printer access

NetWare: Encrypted passwords

LOGICAL PRINTERS
The eight logical printer ports can be programmed to perform auto-ASCII to PostScript conversion, string before and after job, string substitution, alternative output and character set conversion. In the 5470e Copier version, each logical printer port can be configured to activate a number of finishing options in the digital copier.

PARALLEL PRINTERS (670e)
Two IEEE 1284 compliant high-speed parallel-ports, 25-pin DSUB

PARALLEL PRINTER (5470e)
One IEEE 1284 compliant high-speed parallel-port

SERIAL PRINTER (670e)
1 serial port, RS-232C, 9-pin DSUB XON/XOFF or RTS/CTS. Data rates up to 115,200 baud.

HARDWARE
32-bit RISC controller,
5470e – 8MB RAM memory,
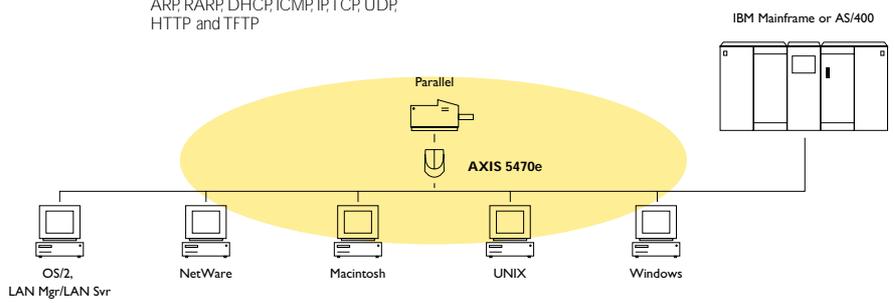670e – 2MB RAM memory

FRONT PANEL
2 LED Indicators: Power and Network. Push-button for information printouts

POWER CONSUMPTION
Maximum 5.1 W. Power provided by external supply 5470e, 670e – Type PS-B 12V 500 mA

PHYSICAL SPECIFICATIONS
Size (670e): H 1.0 in/2.5 cm, W 6.1 in/15.5 cm, D 4.7 in/12.0 cm. Weight: .55 lb/.25 kg

Size (5470e): H 1.1 in/2.7 cm, W 2.2 in/5.6 cm, D 4.7 in/12 cm. Weight: .26 lb/.12 kg

Temperature: 40–105°F (5–40°C)
Humidity: 10–95% non-condensing

Approvals: EMC CE: EN 55022/1987, EN50082-1/1992, FCC Class A

Safety: EN 60950, approved power supplies for all countries

IBM Mainframe or AS/400

Parallel

AXIS 5470e

OS/2, LAN Mgr/LAN Svr — NetWare — Macintosh — UNIX — Windows

					Supported NOS and Protocols									
Model #	Network Connections	100 Mbps Support	Digital copier Support	SNA	TN3270E	TN5250E	IPDS	OS/400	OS/390	Windows (NT,WW,95)	Netware (Bindary & NDS)	LAN Mgr/ LAN Srv	LANtastic	Apple Ether Talk
AXIS 5470e TCP/IP	RJ-45 (10Mbps & 100Mbps)	•			•	•		•	•	•	•	•	•	•
AXIS 5470e SNA	RJ-45 (10Mbps & 100Mbps)	•		•	•	•		•	•	•	•	•	•	•
AXIS 5470e IPDS	RJ-45 (10Mbps & 100Mbps)	•		•	•	•	•	•	•	•	•	•	•	•
AXIS 5470e COPIER	RJ-45 (10Mbps & 100Mbps)	•	•	•	•	•	•	•	•	•	•	•	•	•
AXIS 670e	4Mbps and 16Mbps		•	•	•	•	•	•	•	•	•	•	•	•

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