

Key Features

- ✓ LAN-to-Async Connectivity
- ✓ 8 or 16 ports at up to 921.6Kbps high speed
- ✓ Throughput 460.8Kbps for 8 ports, 230.4Kbps for 16 ports
- ✓ Windows NT real COM Port driver
- ✓ Moxa ASPP Protocol for Async Device Control over TCP/IP
- ✓ Support UNIX fixed TTY
- ✓ Easy Windows Configuration
- ✓ Auto-Recognition for PPP/SLIP/Terminal
- ✓ PPP, CHAP, Dial-Back, Server Password, and RADIUS Security
- ✓ Upgradeable Firmware via Flash ROM
- ✓ Automatic Hardware Flow Control
- ✓ Max. 4 Telnet/Rlogin sessions under Terminal mode
- ✓ Desktop/Rackmount Flexibility
- ✓ One Parallel Printer Port as TCP/IP Printer Server
- ✓ Auto-sensing LAN Interface

Hardware Specifications

- CPU: 32-bit Processor
- RAM: 1MB
- Flash ROM: 512KB
- UART: TI550C
- LAN Interfaces: 10Base2(BNC) and 10BaseT(UTP RJ45)
- Serial Interfaces: 8 or 16 RS-232 Ports (RJ45), RS-422 (Optional)
- Port Signals: DTR, DSR, DCD, RTS, CTS, TXD, RXD, and GND
- LED Indicators: Data Transmission, Receiving, and Power Status
- Serial Line Speed: 50bps ~ 921.6Kbps
- One RS-232 Console Port and one Centronic Parallel Port
- Surge Protection by Moxa A60 Surge Protector (Optional)
- Desktop or Rackmount to 19" rack with enclosed toolkit
- Dimensions (without ear): W10.6"(27cm) X D6.3"(16cm) X H1.75"(4.45cm)
- Package Weight: 5.51lb (2.5kg)
- Power: Internal Auto-sensing 90~260V, 47~63Hz, 60W
- Operating Temperature: 32~131°F (0~55°C)

Software Specifications

- Network Protocols: TCP/IP, ARP, UDP, ICMP, RCP, DNS, and Static Routing
- Connection Protocols: Auto-Sensing PPP/SLIP/Terminal
- Access Protocols: Telnet/Rlogin/Reverse Telnet
- Security: PAP/CHAP, RADIUS, Dial-Back, and Server Password
- Network Management: SNMP
- Access Development Protocol: Moxa ASPP®



Ordering Information

- CN2116 16-port Async Server with one CN20030 and one CN20040
- CN2108 8-port Async Server with one CN20030 and CN20040
- CN20030 3ft(1.5m) RJ45 to female DB25 RS-232 cable
- CN20040 3ft(1.5m) RJ45 to male DB25 RS-232 cable
- A50 (Optional) RS-232 to RS-422/RS-485 bi-directional converter
- A60 (Optional) RS-232 Surge Protection Converter

Industries

- Telecommunications
- Banking Business
- Stock Exchange Centers
- Financial Firms
- Internet Providers
- Medical Offices
- Real Estate
- Insurance Companies
- Freight and Courier Companies

Key Values

- ✓ Deploy 8 or 16 Asynchronous Serial Devices to TCP/IP Network with up to 921.6Kbps Speed
- ✓ Provide Solutions as Remote Access Server, Communications Server, and Terminal Server
- ✓ Offer Windows NT Real COM Port Driver for Better Device Control
- ✓ Deliver Great Performance with Industry-leading Communication Throughput at 460.8Kbps
- ✓ Save Operation Time with Easy Configuration
- ✓ Extend Network Access Security
- ✓ Upgradeable Firmware for New Technologies

Applications

- Internet/Intranet Remote Access
- Transparent Async Device Control
- Terminal Server for Multi-user System
- Telecommuting
- Branch-to-Central Office Connectivity
- Remote Group Printing
- Server Console Management

CN2100 Async Server

A Cost-effective Serial Communication Server for Local and Remote Access/Control over TCP/IP Network.



Are you finding a perfect yet reasonably priced solution for your customer's remote access needs? Are you planning to control remote asynchronous devices utilizing TCP/IP-based network? Or, are you looking for economical ways to connect terminals to Ethernet LANs?

Moxa CN2100 Async Server provides an intelligent and cost-effective solution connecting RS-232 devices, such as terminals, modems, ISDN TA, or printers, to TCP/IP Ethernet Networks. The real COM Port enables easy multi-host control over asynchronous devices under Windows NT environment.

From Terminal Server, Remote Access Server, Communications Server to advanced Async Device Server, Moxa CN2100 Async Server delivers high performance for corporate remote access and industry automation. Moxa CN2100 Async Server helps you achieve the most out of your remote-networking environment with the features and reliability you need.

Beyond Tomorrow's Technologies

Moxa Async Server is more cost-effective than any other similar servers you may find in the market in terms of investment. With Moxa Async Server out-performing tomorrow's connection technologies - speed up to 921.6Kbps, your network environment can easily be extended without concerning current investment. Furthermore, you can always enjoy the latest developed features by downloading the firmware from Moxa's website.

Powerful Performance

Moxa Async Server employs a high performing RISC processor integrated with industry-leading software, bringing communication throughput to 230.4Kbps, while running 16 ports simultaneously (460.8Kbps for 8 ports). It offers an alternative to users frustrated with slow connections and administrators worried about increasing networking cost. Moreover, the high performance strengthens your business competitiveness, providing more conveniences to your clients.

Moxa Technologies Co., Ltd.

Fl. 8, No. 6, Alley 6, Lane 235, Pao-Chiao Rd.,
Shing-Tien City, Taiwan, R.O.C
Tel: +886-2-2910-1230 Fax: +886-2-2910-1231
www.moxa.com.tw
sales_clg@moxa.com.tw

Hot Line

Tel: +886-2-8665-8535 Fax: +886-2-8665-8536

Moxa Tech USA, Inc.

Tel: (826)968-7500 Fax: (826)968-7411
www.moxa.com
info@moxa.com

Moxa Tech Beijing, Inc.

Tel: +86-10-8872-3959 Fax: +86-10-8872-3958
moxa@public.east.cn.net





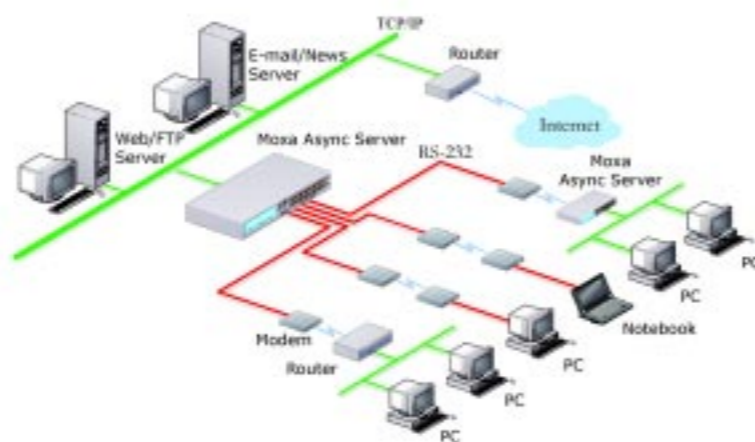
Easy Configuration and Management

With the latest Windows configuration program, you can easily configure and manage Moxa Async Server with point-and-click menu. Moxa Async Server can be managed or monitored either on local console port or via Telnet from anywhere on the network. SNMP protocols are also supported for better network management.

Remote Dial-In and Multi-Point Routing

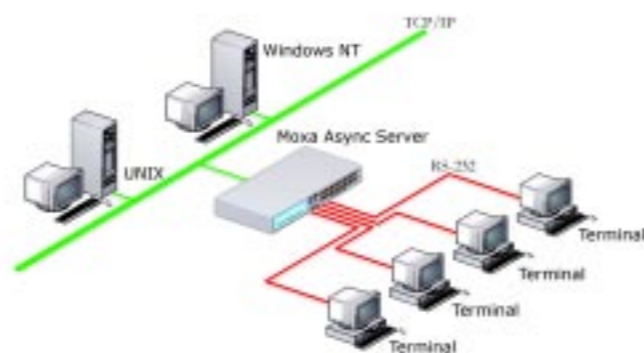
Moxa Async Server provides remote dial-in access for mobile users, telecommuters, and small remote offices, to centralized corporate networks. To ensure the connectivity, a number of auto-sensing protocols, such as PPP, SLIP, or Terminal, are supported and configurable on each port of Moxa Async Server. Upon successfully connecting to Moxa Async Server, remote users or customers can utilize Telnet, FTP, or web browsers to enjoy Intranet/Internet services, regardless of the network protocols.

If you are considering the increasing use of dial up services for multiple remote branch offices connection or Internet backup link with low-density network access, you may configure Async Server as an asynchronous routing server. By connecting to multiple standalone Async Server or async routers, data is routed from LAN to LAN. This provides a entry-level solution for branch office communication instead of traditional routers.



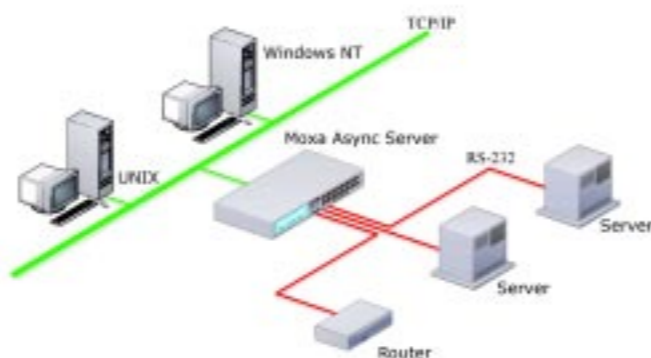
Terminal Access

Main-frame-based computing, with access via traditional terminals, creates business advantages for many enterprises. From cashiers in Point-Of-Sale system, terminals in stock exchange offices or travel agencies, to ATM machines in banking system, Moxa Async Server provides a reliable solution for users to access central mainframes by Telnet protocol. Moreover, multi-session and host configurations make terminal access smoother than ever.



Reverse Telnet

On the contrary to Telnet, Reverse Telnet protocol provides TCP/IP network hosts, such as terminals or workstations, with access to RS-232 devices connected to Async Server. This delivers network administrators an alternative to manage other servers or routers with console ports attached to Async Server. In addition, non-TCP/IP servers, minicomputers, or equipment with asynchronous interfaces can easily be accessed and managed through LAN.



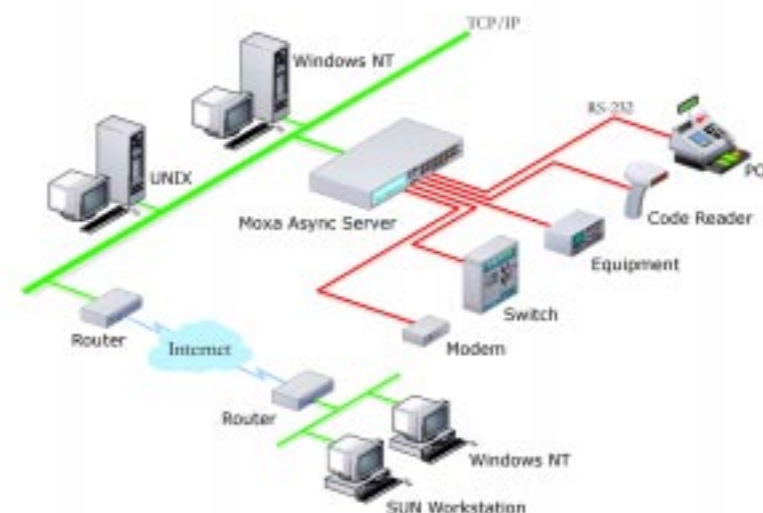
Async Device Control over TCP/IP

To extend the traditional serial communication from attaching at dedicated machines to TCP/IP networking, Moxa Async Server provides ASPP protocol programmable on various network hosts. With ASPP protocol, hosts can control devices attached to the Async Server anywhere on the network as if they are connected directly. The ASPP protocol is developed through standard network socket interface and is thus interoperable through most operating system platforms.

Moreover, for the booming Windows NT users, Moxa Async Server supports the Windows NT COM port driver with fully compatibility to Windows NT's standard COM driver and full RS-232 signal control. You can now run application software like modem pooling, fax pooling, data acquisition, thin-client and RAS from any Windows NT on the network.

The software can be installed on more than one Windows NT hosts for either sharing the server or for backup. Nevertheless, Moxa Async Server provides port access control which makes the multiple-host and remote control through WAN secured.

UNIX fixed TTY's device driver is also supported for serial access in UNIX systems to ease implementation and interoperable with existing third party application software.



Secured Communication

Moxa Async Server provides multiple levels of security to protect your vital information sources. Password Authentication Protocol (PAP) and Challenge Handshake Authentication Protocol (CHAP) enable the username and password to be transmitted in an encrypted form to protect them against eavesdroppers. RADIUS (Remote Authentication Dial-In User Service) over Windows NT and UNIX systems is also supported to extend security control over large user profile databases. Dial-Back feature strengthens account authentication by dialing back to the authorized telephone number. Async Server can also be password-protected avoiding unauthorized configurations. Choose one or combine several security measures to make your network safer.

Integrated Product Solution and Guaranteed Quality

Moxa Async Server combines the functionality of Terminal Server, Remote Access Server, Communication Server, and Transparent Multi-Port Serial Device Server, and can be tailored accordingly to your changing needs. In addition, all Moxa network products are designed and manufactured for exceptional reliability. Strict testing procedures and standards are set for new products before releasing to ensure our customers get the best quality. Customers are also entitled to comprehensive technical support, either on our Web, or via service hotline. With the flexibility and the reliability, you may make most use out of your investment for long time to come.

