CN2610 Series

8/16 Port Dual LAN RS-232 Async Server

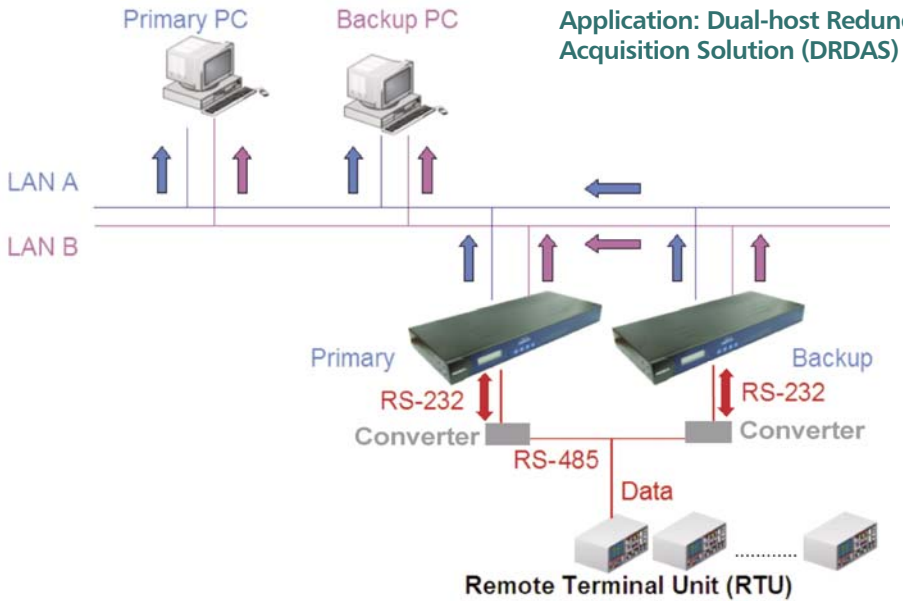
Features

- Support LCM interface for easy to on-site management
- Support 2 IP Address and 2 MAC Address
- Dual-host Redundant Data Acquisition Solution (DRDAS)
- DRDAS provide two priority level by 1 Primary and 3 Secondary connection
- Real COM/TTY dirver for Windows and Linux
- Console Management for Router, PBX, Server
- ASPP or Standard BSD for Socket Programming
- Remote management via telnet, SNMP II

Designed for mission critical applications

More and more industrial applications are facing the challenge to integrate serial devices, like RTUs, into a reliable LAN network. CN2610 series is special designed with dual LAN, dual MAC, dual IP addresses to answer the highly redundant LAN network requirements. With dual LAN design, redundant access can be realized from different LAN/WAN networks. CN2610 can provide access and management of any combination of serial devices: RTU, Server, Routers, Workstations, LAN/WAN devices and more. CN2610's dual-host redundant solution can send/receive serial data to 4 IP addresses on the network.

Application: Dual-host Redundant Data Acquisition Solution (DRDAS)

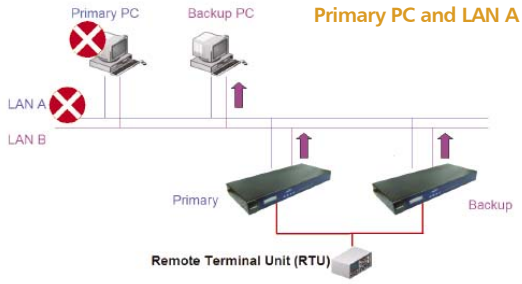


Dual Host, Dual LAN, Dual CN2610 build up a redundant system

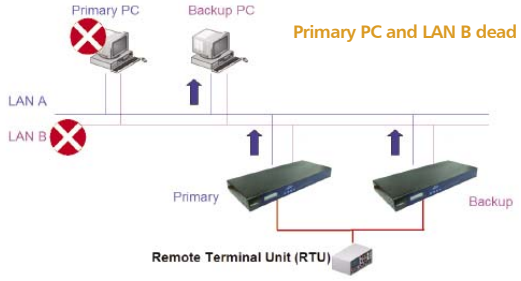
In order to prevent "Single point failure", most of the redundant systems provide different level of "Redundant" solutions. These redundant solutions not only need hardware physical redundant mechanisms via some "watch dog" hardware but also need software to build up a "Token" switching mechanism. CN2610 provides a Dual-host Redundant Data Acquisition Solution (DRDAS), which is suitable for highly redundant data acquisition requirments.

Following description is an introduction of CN2610's DRDAS solution.

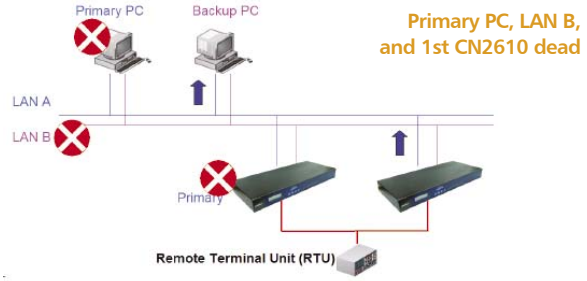
LAN redundant: CN2610 provide 2 LAN port to connect to different LAN network. Via using routing table, CN2610 supports full communication ability to send packets into different network. From different LAN network, host also can connect to CN2610 via different IP address. If LAN A is crash or dead, PC with dual network interface cards still can communicate with CN2610 via LAN B.



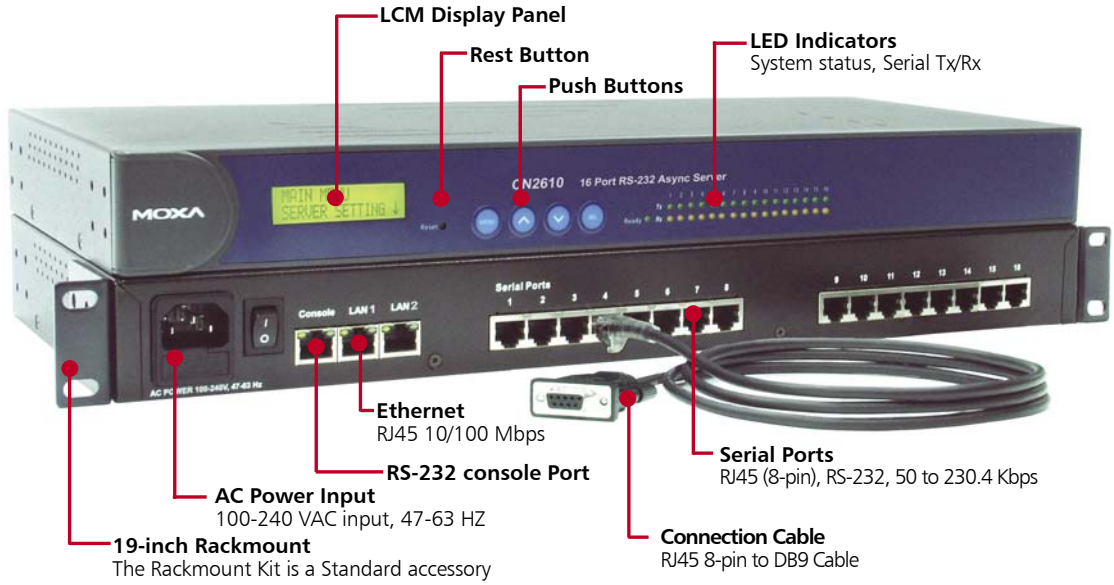
Host redundant: CN2610 can provide the synchronous communication ability to establish connections to Primary PC and Backup PC at the same time. Once Primary PC is dead backup PC will take over the control immediately.



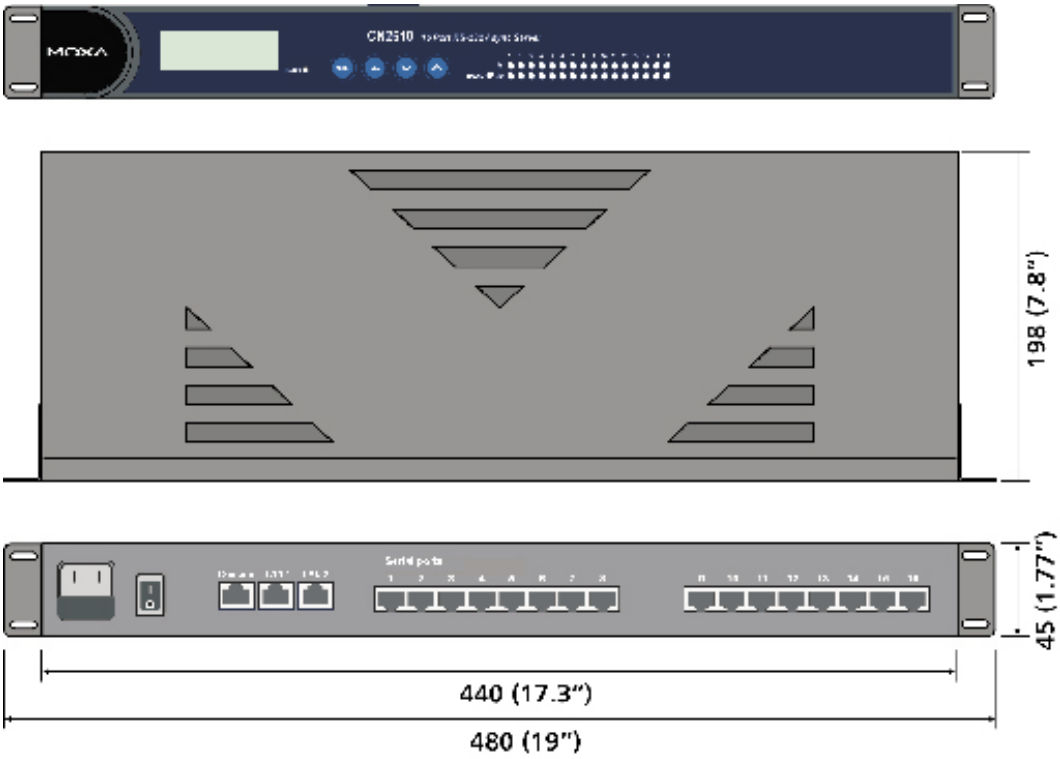
Data acquisition redundant: CN2610 DRDAS mode plays the role to communicate with up to 4 IP addresses. In the previous page's picture, CN2610 receive the RTU's data from serial port, and send the data to 4 IP addresses in 2 PC in the different LAN. 1 of the 4 IP address is the primary IP to send the down stream data to RTU and the other 3 IP cannot send data to RTU. Via this architecture, if Primary PC, LAN B and Primary CN2610 crash at the same time, the system still work without problem.



CN2610 Appearance



Dimensions



Optional Accessories
RJ45 to DB-type cables

CBL-RJ45M9-150

8-pin RJ45 to Male DB9, 150 cm

CBL-RJ45M25-150

8-pin RJ45 to Male DB25, 150 cm

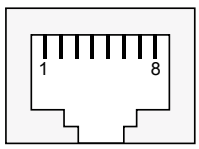
CBL-RJ45F25-150

8-pin RJ45 to Female DB25,150 cm

CBL-RJ45F9-150

8-pin RJ45 to Female DB9,150 cm

RJ45 RS-232 port pin asignment



PIN	RS-232
1	DSR (in)
2	RTS (out)
3	GND
4	TxD (out)

PIN	RS-232
5	RxD (in)
6	DCD (in)
7	CTS (in)
8	DTR (out)

Specifications

Hardware

Kernel

CPU: 32 bit RISC
RAM: 4 MB
Flash ROM: 512 KB
I/O controller: 16C550C Compatible UART

Interface

LAN: RJ45 8-pin connector
No. of ports: 2
Speed: 10/100 Mbps
Protection: 1.5 KV magnetic isolation
Serial Port: RJ45 (8-pin) connector
Interface type: RS-232
No. of ports: 16 ports (CN2610-16), 8 ports (CN2610-8)
Speed: 50 to 230.4 Kbps
Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Protection: 15 KV ESD for all signals
Console Port: 1 RS-232 console port (RJ45, 8-pin)

Software

Protocols: TCP/IP, UDP, ICMP, NetBUEI, DHCP, PPP, SLIP, CSLIP
Applications: Telnet, rlogin, rtelnet, DNS, LPD, RCP, WINS, Dial-on-Demand
Security: RADIUS, Dialback, PAP, CHAP, Local user / password
Management: SNMP MIB-II
IP routing: Static, RIP-I, RIP-II.

Programming

Real COM/TTY Driver: Windows 9x/NT/ME/2K/XP/2003, Linux (kernel 2.2.x , 2.4.x)
Fixed TTY Driver: SCO OpenServer 5 , SCO Unixware 7.x, Linux (kernel 2.2.x , 2.4.x)
Moxa ASPP: Windows 9x/NT/ME/2K/XP/2003, Linux, all UNIX based on socket support
Socket: Standard BSD Socket interface

Applications

Terminal Sessions: 8 sessions per port

Environment

Power Requirments

Power Input: 100 to 240V, 47 to 63 Hz
Power Consumption:
235 mA for 100V, 145 mA for 240V

Environment

Operating Temperature: 0 to 55°C (32 to 131°F)
Operating Humidity: 5 to 95% RH
Storage Temperature:
-20 to 75°C (-4 to 167°F)

Dimensions

Dimensions: 440 x 198 x 45 mm (17.3 x 7.8 x 1.77 in)

Regulatory Approvals

EMC: FCC Class A, CE Class A
Safety: UL, CUL, TÜV

Ordering Information

CN2610-8

8-port RS-232 dual LAN Async Server, 100 to 240 VAC power input

CN2610-16

16-port RS-232 dual LAN Async Server, 100 to 240 VAC power input

All items include: CN2610 Quick installation Guide, Document and software CD-ROM, Power Cord x 1, CBL-RJ45F9-150 x 1, CBL-RJ45M25-150 x 1

Optional Cables

CBL-RJ45M9-150: RJ45 8-pin to DB9 Male cable, 150 cm
CBL-RJ45F9-150: RJ45 8-pin to DB9 Female cable, 150 cm
CBL-RJ45M25-150: RJ45 8-pin to DB25 Male cable, 150 cm
CBL-RJ45F25-150: RJ45 8-pin to DB25 Female cable, 150 cm