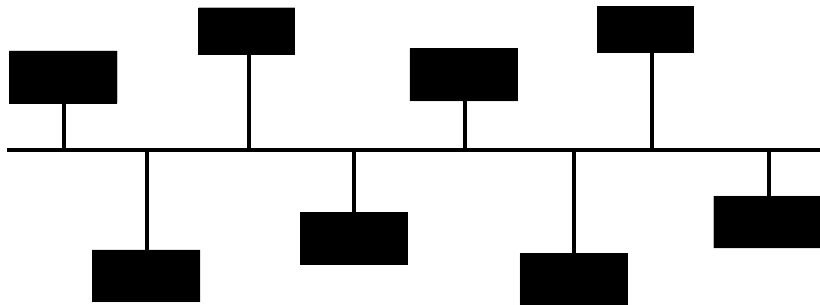


VNC Versatile Network Controller



Operation and Installation Manual



Revision 2.01
Sept 2005

VNC Versatile Network Controller

Setup and Operation Manual

PR019 Revision 2.00

This manual covers the setup and operation of the VNC Controller.

Optional CineNet and related equipment is covered in the following product reference manuals:

- PR001 CNA Installation Manual
- PR002 CNA-200 Setup and Operation Manual
- PR003 CNA-150 Setup and Operation Manual
- PR004 CNA-100 Setup and Operation Manual
- PR005 QDC-400 Installation and Setup Manual
- PR006 ACP-50 Installation and Setup Manual
- PR007 RVC-5 Installation and Setup Manual
- PR008 PCI-64 Gateway Interface Installation
- PR009 CineNet Host Software
- PR010 RCM-10/RSM-10/RSM-20 Installation and Operation Manual
- PR011 Strong Dimmer Installation, Setup, and Operation Manual
- PR012 eCNA-100 Automation Manual
- PR013 eCNA-150 Automation Manual
- PR014 eCNA-200 Automation Manual
- PR016 Strong FP350 Installation and Operation Manual
- PR017 Eprad FP350 Installation and Operation Manual
- PR018 Paging system Setup and Installation Manual
- PR019 VNC Setup and Operation Manual
- PR020 CineSuite Installation and Operation Manual

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Features Overview

- One 10Base2 port
- One 10Base-T port
- One LSN port
- Three LEDs to indicate Link, Active and Power status
- Optional Expander Board includes three RS-232 ports and one RS-485 port

Package Contents

- One VNC Versatile Network Controller
- One AC Power Adapter
- This Users Guide
- RS-232 Interface Cable

External Features

The following illustrations depict the external components of the VNC.

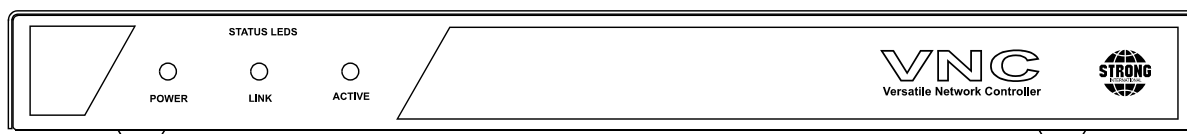


Figure 1: Front Panel

1. Power (RED) Indicator

This LED indicator lights when the VNC is powered on.

2. Link (GREEN) Indicator

The VNC's 10Base-T transceiver continually monitors the receive data path for activity as a means of checking whether the link is working correctly. The transceivers at both ends of the segment also send a link test signal to one another to verify the integrity of both twisted pair links. The Link LED indicator remains on when the connection is okay.

3. Active (GREEN) Indicator

This LED indicates transmit and receive activity on the segment.

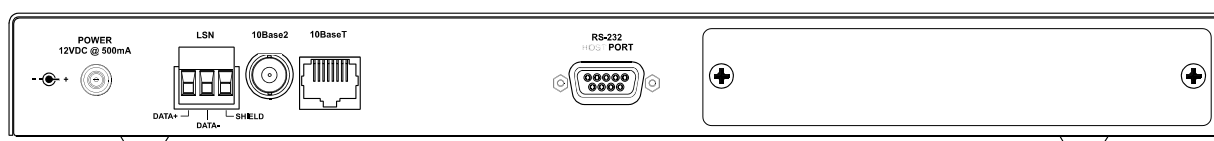


Figure 2: Rear Panel

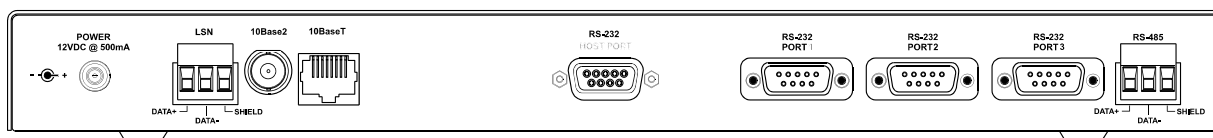


Figure 3: Rear Panel with Optional Expansion Board

1. AC Adapter Port

Plug the AC Adapter jack into this port.

2. LSN Port

This is an RS-485 port for making connections to the LSN (Automation Sync Network).

3. BNC Port

The VNC is equipped with one BNC port for making 10Base2 connections.

4. RJ-45 UTP Port

The VNC is equipped with one RJ-45 UTP port for making a 10Base-T to hub connection.

5. RS-232 Host Port

This is an RS-232 port that is used to connect the VNC to the Host computer.

6. RS-232 Port 1, 2 and 3 (optional)

These are RS-232 ports used to connect the VNC to auxiliary equipment such as an On-Premises Paging Transmitter, LED signs, etc.

7. RS-485 Port (optional) 4

This is an RS-485 port used to connect the VNC to auxiliary equipment such as LED signs.

Insure that the VNC and other network device are in the power off mode before making the connections.

The following figure illustrates a simple network topology using a 10Base-T or 10Base2 Ethernet. Each VNC and CNA Automation must have a unique Id number. The Host computer must connect to VNC Id 0.

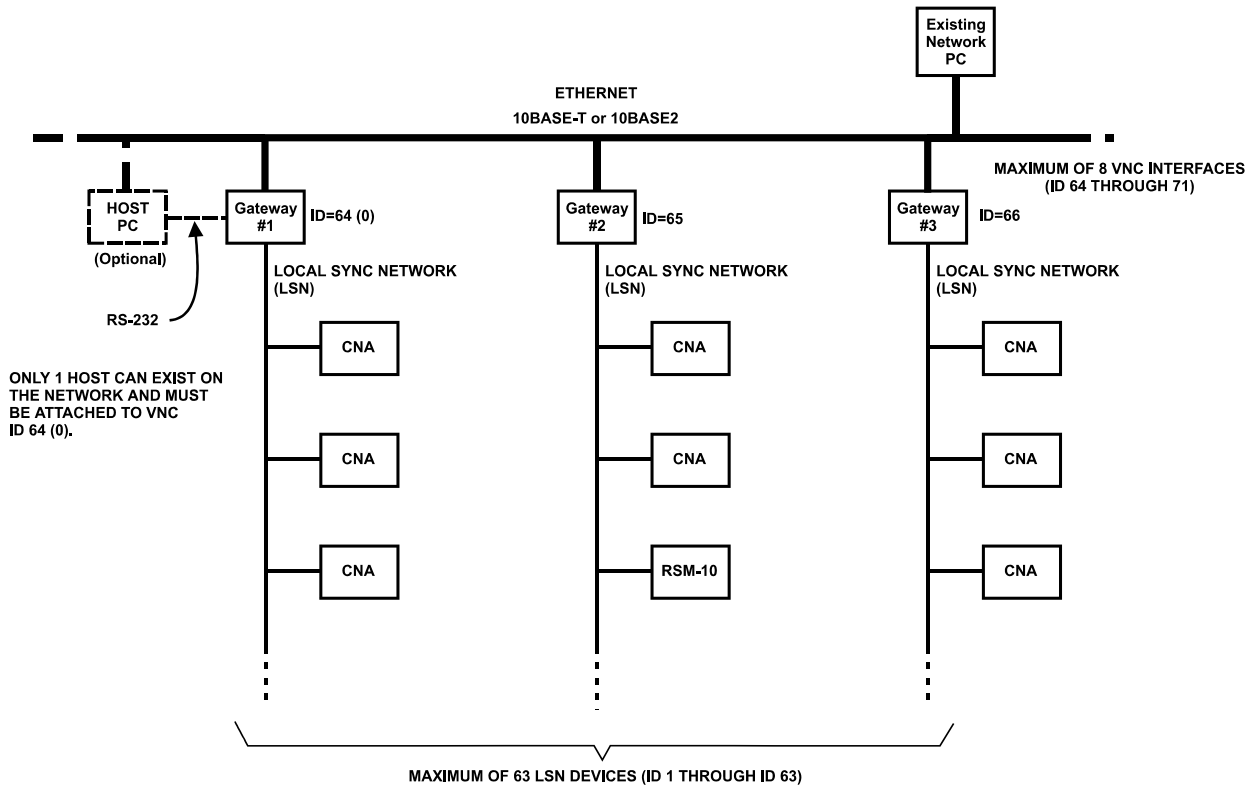


Figure 4: 10Base-T or 10Base2 network connections.

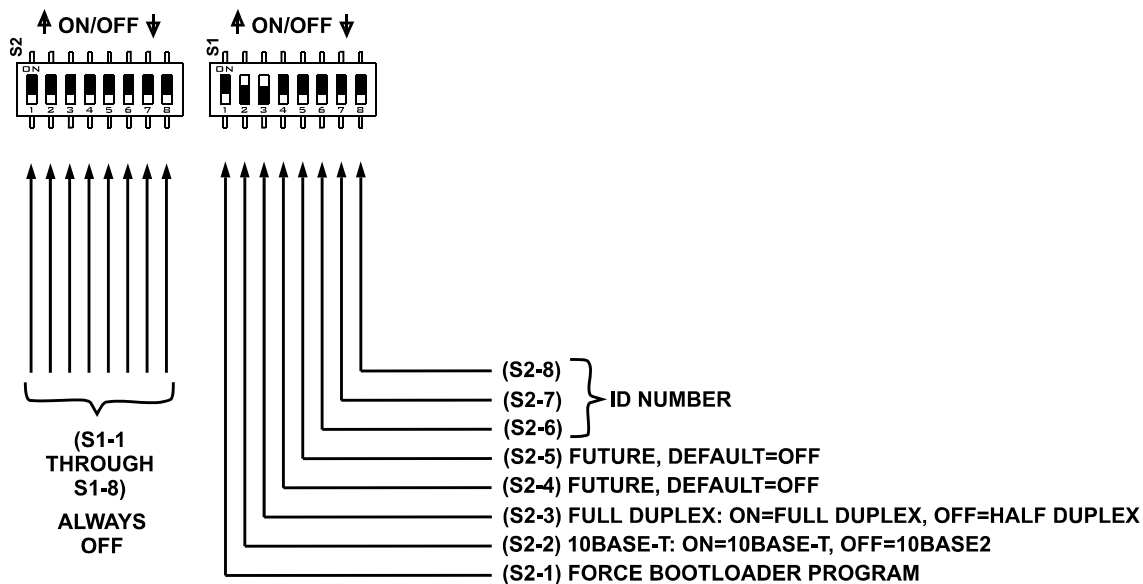
In order to Fully utilize the VNC the CineSuite software package should be up and running on your Host PC. The user should take time to learn all of its features by carefully studying the CineSuite user's guide.

The DOS Host program is also available for use with the VNC, it however does not operate via TCP/IP. The DOS Host program provides functional but limited features to control and monitor the LSN and LIN components.

DIP Switch Settings

Open the VNC enclosure to configure the DIP switches on the VNC pc board.

*Switches are shown in default positions



<u>S1-6</u>	<u>S1-7</u>	<u>S1-8</u>	<u>ETHERNET ADDRESS</u>	<u>LSN ID</u>
OFF	OFF	OFF	00-D0-AD-00-00-01	(LSN Id=64, 0, Host connects here)
OFF	OFF	ON	00-D0-AD-00-00-02	(LSN Id=65)
OFF	ON	OFF	00-D0-AD-00-00-03	(LSN Id=66)
OFF	ON	ON	00-D0-AD-00-00-04	(LSN Id=67)
ON	OFF	OFF	00-D0-AD-00-00-05	(LSN Id=68)
ON	OFF	ON	00-D0-AD-00-00-06	(LSN Id=69)
ON	ON	OFF	00-D0-AD-00-00-07	(LSN Id=70)
ON	ON	ON	00-D0-AD-00-00-08	(LSN Id=71)

Note: Full duplex is ignored when S1-2 is off (10Base2).

Replacement Parts:

This list contains replacement part numbers that will assist the technician/ equipment owner in the event of a component failure or damage to the VNC.

Component Description	Strong P/N	OEM P/N
VNC Controller board		39460
VNC Expansion board		39461
Power supply		27106

Software Changes:**Date:** 5-23-00**Version:** 1.000A**Checksum:** 37470

Reduced ethernet send byte count by 2

Date: 8-1-00**Version:** 1.002**Checksum:** 54452

Fixed bug that caused continuous paging when CNA had a fault on ID 63

Bootloader Changes:**Date:** 5-3-00**Version:** 1.000**Checksum:** 26292

Created Bootloader program for VNC. Ethernet can now be used to extend the LSN, Added DIP switch configuration for bootloader and address.

Date: 5-23-00**Version:** 1.000A**Checksum:** 26584

Reduced ethernet send byte count by 2

Date: 6-13-00**Version:** 1.001**Checksum:** 55369

Added packet routing support for astsk

Added R/W configuration data (serial e^2 commands)

"Read VNC configuration data" "Write VNC configuration data"

Added astsk for expansion ports and waveware paging support

Date: 10-7-02**Version:** 1.002**Checksum:** 37622

Re-wrote FI-Erase Routine. Fixes hardware incompatibility issues with certain Flash eeproms

Date: 9-16-02**Version:** 1.001**Checksum:** 26555

Wrote fix to prevent possible bug