

1. IMPORTANT STUFF

The Rhino™ channel bank comes ready to go. This section describes important information you need to know with regard to the warranty and safety information.

1.a. Warranty

The Rhino™ Channel Bank is covered by a 5 year limited factory warranty. This warranty is very simple and straightforward. For a complete description of the 5 year limited factory warranty refer to the warranty certificate which came with the unit. If you would like another copy of the warranty certificate contact Rhino Equipment Corp.

1.b. Standards

This equipment complies with Part 68 of the FCC Rules. The FCC Part 68 Label is located on the side of the enclosure. This label contains the FCC Registration Number for this equipment. If requested, this information must be provided to your telephone company.

Connection to the telephone network should be made by using standard modular telephone jacks, type RJ48C. The plug and/or jacks used must comply with FCC Part 68 Rules.

<u>OPERATION</u>	<u>FIC</u>	<u>SOC</u>	<u>(USOC) JACK</u>
T1 CSU Interface	04DU9-1SN 04DU9-1ZN	6.0N	RJ48C

If this telephone equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in it's facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this unit, please contact customer service at the address and phone listed below. **DO NOT DISASSEMBLE THIS EQUIPMENT.** It does not contain any user serviceable components.

Contact: Rhino Equipment Corp
Attn: CUSTOMER SERVICE DEPT.
159 S. Lincoln, Suite 221
Spokane, WA 99201
Ph 509-847-0700, Fax 509-847-3947

1.c. Surge Protection

It is recommended that a surge protector or un-interruptible power supply (UPS) be installed between the Rhino™ Channel Bank and the AC outlet to which it is connected. This will help minimize damage as a result of lightning strikes and other AC line surges. Failure to use a UPS could affect the 5 year limited warranty.

2. INSTALLATION

2.a. Unpacking the Rhino™ Channel Bank

The unit comes in a very sturdy shipping box. The package contains the Rhino™ channel bank, 110V ac power cable, T1 and Analog cables and accessories.

Check the materials in the box against the following packing list. Inspect the unit for any signs of physical damage. Report any damages to the shipper. Keep all packaging material in the event that you need to move or ship the unit in the future. Warranty returns **must** be shipped back to Rhino Equipment Corp in the original shipping box and included insert.

Packing List

<u>Description</u>	<u>Quantity</u>
Rhino™ channel bank	1
Wall-Mount brackets (already attached to the unit)	4
110 V right angle ac input power cable	1
T1 Network Cable, RJ48C to RJ48C	2
Rhino™ Channel Bank Warranty Card	1
Rhino™ Channel Bank Warranty Certificate	1
Rhino™ Channel Bank User's Manual on CD	1
25 Pair Analog connector cable (female to female)	1

2.b. Site Selection

The installation site should provide enough space for adequate ventilation and cable placement. You need to allow 3-4 inches of space on the sides, above and below to insure there is adequate air flow. Provide enough space from the black side panel for access to the LCD screen and the red programming buttons.

The selected installation site should provide a stable operating environment. The area around the installation site should be clean and free from extremes of temperature, humidity, shock, and vibration. The operating temperature should be kept below 100 degrees F.

The Rhino™ channel bank is designed to be used on T1 (DS1) service only. Connecting it to any other type of telecommunications service or services will void the warranty and could cause damage to the network of the provider of the non-approved service or services.

All wiring done external to the Rhino™ channel bank should follow the guidelines as set forth by the National Electrical Code.

2.c. Physical Installation

The Rhino™ Channel Bank is intended to be installed on the wall as a wall mounted unit or in a standard 19 inch rack mount environment or standard 23” rack mount environment. Failure to install the unit in one of these configurations will effect the warranty on the unit. The “L” brackets that came with the unit can be easily moved to reconfigure the unit to meet the installation environment you have chosen.

If the Rhino™ Channel Bank is mounted to the wall be sure to use appropriate screws and/or fasteners suitable for mounting heavy objects. The Rhino™ channel bank weighs just under 20 pounds. Masonry mollies, #8 or larger wood screws or expansion bolts should be used. Do not attempt to install the unit on a wall which may not support the weight of the unit.

2.d. Power Connection

It is recommended that the unit be plugged into a UPS, which is then plugged into a standard 110V AC plug (in the wall). The unit is grounded on the third prong of modern grounded a.c. building wiring. This is sometimes called "Green Wire" ground. This is the safety grounding point used by the Rhino™ Channel Bank 110Vac Power Supply. As long as the unit is plugged into a properly wired 3 prong outlet the unit will be properly grounded. Failure to use a UPS could allow lightning to damage the unit and this is NOT covered by the warranty.

3. T1 INSTALLATION

3.a. Connecting the T1

T1 Cable Installation

The Rhino™ Channel Bank T1 (DS1) interface is an industry-standard RJ48C 8 pin connector with its connections described below. The T1 is usually connected to the telecommunications carrier demarcation point. This is the point at which the carrier terminates their T1 at the customer's premise. Use the included T1 cable to connect the unit to the demarcation point. In some cases additional cable must be run from the carrier's demarcation point to the customer's suite or nearby "phone room".

T1 Line Interface on RJ48C - 8 pin Modular T1 jack

<u>Pin Number</u>	<u>Signal</u>	<u>To/From What?</u>
1	Receive Ring	Coming From T1 (Network)
2	Receive Tip	Coming From T1 (Network)
3	Not connected	
4	Transmit Ring	Going To T1 (Network)
5	Transmit Tip	Going To T1 (Network)
6	Not connected	
7	Not connected	
8	Not connected	

The maximum cable length for a T1 Network (DS1-1) connection is suggested as follows. Reliable T1 cabling distances depend on which type of cable is used. It is strongly recommended that only shielded cable be used as part of any T1 installation. For best results use: shielded 22 AWG T1 cable (ABAM 600).

ABAM 600 T1 Cable

T1 Network (CSU) can go as far as 6,000 feet

ABAM 600 Cable Specifications:

Nominal Impedance: 100 ohms +/- 5% at 772 kHz.

Insertion Loss: Better than 7 dB per 1,000 feet at 1.544 MHz.

Better than 5 dB per 1,000 feet at 772 kHz.

Far-End Crosstalk: Better than 85 dB per 1,000 feet at 1.544 Mhz.

Better than 90 dB per 1,000 feet at 772 kHz.

Near-End Crosstalk: Better than 80 dB per 1,000 feet at 1.544 Mhz.

Better than 85 dB per 1,000 feet at 772 kHz.

Shields: Transmit and receive pairs are individually shielded with aluminum/polyester tape.

If you used unshielded cable you could experience problems. When this type of cable is used, transmit and receive pairs are usually run in separate cables to avoid crosstalk which often occurs in unshielded cables. Failure to use separate cable bundles for transmit and receive can result in the CSU LINE port clocking onto itself (due to crosstalk) with as little as 10 feet of unterminated (unshielded) telephone cable attached. The CSU can thus show a normal framed status when the far end of the telephone wiring is actually disconnected. Again, this is due to crosstalk between pairs in the same cable bundle. This is true of any CSU installation using any kind of unshielded twisted pair cable.

Rhino™ Included T1 Cable
Rhino™ to Network - 10 feet

Connectors
RJ48C to RJ48C

3.b. Connecting the 24 Analog Channels

25 Pair Analog Cable

The Rhino™ Channel Bank has a 25-Pair Female Telephony Connector. This connector is on the back of the unit. To connect to it, use a 25 pair cable with a Standard "D" Style 50 Pin Telephone Wiring Connector with RJ-21X wiring jack (punch down block with 25 pair modular female connector in the side.) For your convenience a cable of this type comes with the Rhino™ Channel Bank.

<u>Pin Location</u>	<u>Function</u>
26	Tip Channel 1
1	Ring Channel 1
27	Tip Channel 2
2	Ring Channel 2
*	*
*	*
*	*
49	Tip Channel 24
24	Ring Channel 24

Note: The Rhino™ channel bank utilizes only 24 pair of the available 25 pair in the analog cable assembly.

3.c. LCD Screen and What It Means

The Rhino™ Channel Bank is equipped with an LCD screen which is used to display the signaling bits (the A and B bits). These bits are displayed in real-time (within a few milliseconds) and they are displayed all the time.

The format of the display of these bits is as follows:

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

where “X” can be 1, 0, A, B or R.

The top row of digits displays what the Rhino™ Channel Bank is receiving from the network. The bottom row of digits displays what the Rhino™ Channel Bank is transmitting out to the network. Channel one is to the far left and channel twenty-four is to the far right.

A “1” means both the “A” and “B” bits are 1. A “0” means both the “A” and “B” bits are 0. An “A” means the “A” bit is 1 and the “B” bit is 0. A “B” means the “B” bit is 1 and the “A” bit is 0. “R” means the channel bank is applying ring voltage to the analog channel.

3.d. Programming the Rhino Channel Bank

Programming the Rhino Channel Bank is done with the four red buttons just below the LCD screen. The buttons are “locked” in order to safeguard an accidental change in the configuration. In order to “unlock” the programming buttons you will need to press them in the following sequence: 1 3 2 4 (counting from the left). As you push each one you will see an asterisk (*) appear above each button. If you make a mistake wait for a short time while the password feature resets itself and you can then try again. The main screen will look like the following as the system initials itself.

```
Rhino Equipment Corp CB-24 Ver 1.00  
Initializing... *** Channel Init ***  
XV3 Channel: AAAAAAAAAAAAAAAAAAAAAA  
RST: 00010000 1 5 10 15 20 24
```

Once the Rhino Channel Bank has initialized itself – if the T1 is not connected (or T1 carrier is not found) the following screen will appear:

```
Rx:00000000000000000000000000000000    IMMD
Tx:00000000000000000000000000000000    Ver 0.27
ERROR: T1 cable not connected...
      Keys                               Locked
```

If, however, the T1 is connected and T1 carrier is recognized by the unit you will see the following screen:

```
Rx:00000000000000000000000000000000    ESF    IMMD
Tx:00000000000000000000000000000000    Ver 1.00
Rhino Equipment Corp CB-24
      Keys                               Locked
```

Once you press the four programming buttons in the correct order as described above you will see the following screen:

```
Rx:00000000000000000000000000000000    ESF    IMMD
Tx:00000000000000000000000000000000    Ver 1.00
Rhino Equipment Corp CB-24
Configure    Alarms    System    Tests
```

Now you are ready to configure the Rhino Channel Bank.

4. RHINO™ CHANNEL BANK CONFIGURATION

All configurations are set easily using the 4 red buttons which are located just below the LCD screen. The programming screen is password protected so that unintentional changes are not accidentally made. The password is to press the buttons in the following order: 1 3 2 4 (counting with the far left button as #1 and to the far right as #4).

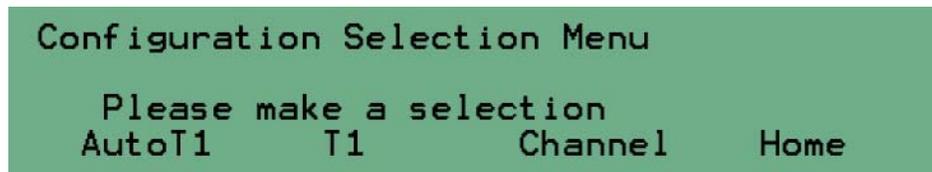
Once you are past the password into the programming screen from there it is very intuitive. (For a tutorial simply run the tutorial program that came on the same CD that this document came on.)

4.a. AUTO T1 Configuration

The AUTO T1 Configuration of the Rhino™ Channel Bank makes it the easiest channel bank on the market to set up and configure. Simply plug in the unit and it will self configure according to what the T1 has been set up for. If the T1 is not yet turned up by the carrier simply go into Config and then select AUTO T1. The unit will reconfigure itself.

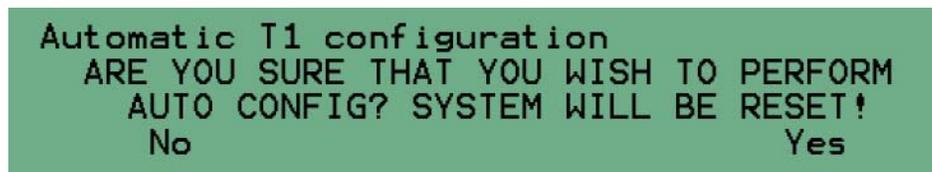
To Auto Configure select the red button under the word “Configure”.

You will then see the following screen:



```
Configuration Selection Menu
Please make a selection
AutoT1      T1      Channel      Home
```

Then press the red button under the word “AutoT1”. Then press the fourth red button to confirm you wish to run the Auto T1 config tool.

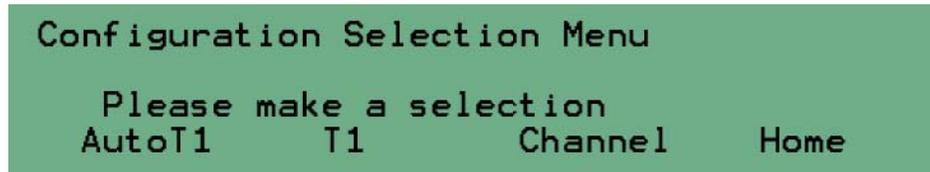


```
Automatic T1 configuration
ARE YOU SURE THAT YOU WISH TO PERFORM
AUTO CONFIG? SYSTEM WILL BE RESET!
No                                     Yes
```

It's that easy!!

(If the T1 is set up for Immediate or Wink start you might need to run AutoT1 more than once to make sure it properly “sees” the correct configuration. Immediate Start and Wink Start “look” almost identical from a signaling bit standpoint.)

4.b. Configuring the T1



To configure the T1 manually is very easy. Simply press the red button under the word “T1” and you will get the following screen:



From here the first red button (the one on the left) will move the cursor to the Next Field (Nxt Fld). Once the cursor is located at the field you want to setup pressing the second red button will Change the Value of that field (Chg Val). By using the first and second red buttons you can navigate between each field and scroll through each available setting.

The following is a description of each field (although this is very intuitive and you might not need to read this section – it is here for those not familiar with T1 configurations).

Slot: This references the “channels” on the T1. There are 24 of them. You can configure ALL of them or you can step through each one and configure each channel separately. (Keep in mind you are configuring T1 channels – NOT analog channels in this screen).

Proto: This references the start protocol you want to use. Available options are Wink, Immediate, Loop, Ground, DID1, DID2, DID3. If you are setting up DID service you will need to call for tech support so that you can make sure all the timing parameters are set up correctly. Different carriers approach DID protocols differently. The Rhino Channel Bank is flexible enough to handle virtually any DID protocol. Sometimes getting the timing right in some instances can be tricky. Here is a description of the other start protocols:

Immediate Start

Immediate Start is the oldest of the start protocols. It is also the simplest to understand. The “transmit” from the network is connected to the “receive” of the channel bank. The “transmit” of the channel bank is connected to the “receive” of the network. Immediate Start begins by having one end of the circuit (in our

example the network), on the same channel, seize the channel by going off hook. This off-hook condition results in the network transmitting AB=11. The channel bank recognizes the seizure and begins ringing the near end channel. When the phone is answered the channel bank transmits back to the network AB=11.

Wink Start

Wink Start is a very common start protocol because of its inherent “confirming” characteristic. Like Immediate Start the network seizes the line by sending AB=11. The channel bank then “winks” back at the network by sending a momentary AB=11. This “confirms” to the network that the seizure was recognized. The channel bank rings the phone corresponding to the seized channel. When the phone is answered the channel bank sends the network AB=11 indicating the call was answered. Likewise, when a near end phone goes off-hook the channel bank seizes the channel on the T1 by sending AB=11. The network responds by “winking” with a momentary AB=11. The network sends AB=11 after the call has been answered at the far end.

Loop Start

Loop Start works similar to wink start except the A and B bits are used a bit differently (no pun intended). One of the bits is used to signify ringing and the other bit is used to signify on-hook or off-hook.

Ground Start

Ground Start works similar to loop start with one exception. The network “A” bit is used differently to indicate a call is starting or a call is ending.

Frame: This is the framing on the T1. It can be D4 (which is SF) or it can be ESF.

Gain: In most cases you won’t need to change this setting.

Clock: This is where you set where the T1 timing is derived. SLAVE means the Rhino Channel Bank will get its timing from the T1. MASTER means the Rhino Channel Bank will supply master timing to the device at the other end of the T1.

Coding: This can be AMI or B8ZS. In most D4 (SF) installations this will be set to AMI and in almost all ESF installations this will be B8ZS.

Buildout: This is how far the Rhino Channel Bank is away from the carrier’s

demarc point (in feet). If you are within 133 feet of the demarc then you won't need to change this setting.

Once your changes have been made you MUST save them by pressing the third red button. If you do NOT save them – the changes will NOT go into effect. To exit this area without saving OR after saving press the fourth red button to go back to the previous screen.

4.c. Configure the Analog Channels

To configure the Analog channels press the red button under the word “Channel”. You will then see the following screen:

```
Channel Config      Channel:ALL
Function:ANLOG PwrDn:0sec I-Loop:18.0mA
Tx: db Rx: db Ring:20 On 40 Offx100ms
  Nxt Fld  Chg Val   Save   Back
```

Similar to T1 Config - from here the first red button (the one on the left) will move the cursor to the Next Field (Nxt Fld). Once the cursor is located at the field you want to setup pressing the second red button will Change the Value of that field (Chg Val). By using the first and second red buttons you can navigate between each field and scroll through each available setting.

The following is a description of each field (although this is very intuitive and you might not need to read this section – it is here for those not familiar with analog channel configurations).

Channel: This references the analog “channels” on the analog side of the Rhino Channel Bank. There are 24 of them. You can configure ALL of them or you can step through each one and configure each channel separately. (Keep in mind you are analog channels – NOT T1 channels in this screen).

Function: This references whether you want to use the channel for analog voice or for data. If you select data you have nothing more to set in this screen as that is programmed in a different screen. If you select ANLOG then continue setting up the channel.

PwrDn: This is short for Power Down. This tells the channel to actually remove voltage from the line when the channel goes on-hook (hangs up). Many telecom devices do not disconnect the call unless power is removed from the line. Here you can set 1, 2, 3 or 4 seconds as the duration of time that power is removed before re-powering the channel.

I-Loop: This is how much current is used to drive the analog channel. In most cases you won’t need to change this setting. But if your installation requires more or less line current for the analog channel you can set the value here.

Tx Rx: This is where you set the transmit and receive gain for the analog channel. In most cases you will not need to change this setting.

Ring: With the Rhino Channel Bank you can custom configure the ring cadence for every channel. There are two values for this setting. Each value is in 100

millisecond increments. Therefore an “ON” time of 20 is really 20X100 which is 2,000 ms – which is 2 seconds ON. A value of 40 OFF is 4 seconds OFF. This is the default ring cadence. Some PBXs require a different type of ring cadence and here is where you would set that.

Once your changes have been made you MUST save them by pressing the third red button. If you do NOT save them – the changes will NOT go into effect. To exit this area without saving OR after saving press the fourth red button to go back to the previous screen.

4.d. System Configuration Settings and Status

Selecting “System” from the Main Menu screen will bring up the following screen:

```
System Level Configuration
Choose an item
Timers Console Data Home
```

Timers: Selecting “Timers” will bring up the following screen:

```
Uptime: 00000 Day 00 Hr 26 Min 15 Sec
Downtime: 00000 Day 00 Hr 00 Min 00 Sec
Last Error: NONE - System BOOT OK...
Reset Flag: 00010000 XV69 Back
```

Here you will see the amount of current “up time” as well as the amount of “down time” that the Rhino Channel Bank has experienced since the last Auto T1 configuration or manual configuration. The “Last Error” and “Reset Flag” provide additional trouble shooting information that Rhino technical support may ask for when assisting with a trouble shooting situation.

Console: Selecting “Console” will bring up the following screen:

```
Remote Control Configuration
Active:NO Baud:19200 Err Log:OFF
Nxt Fld Chg Val Save Back
```

This screen gives the status of the console port – whether it is active or not (showing YES or NO).

Baud: This is where you set the baud rate for the serial connection between your laptop computer and the Rhino Channel Bank. To change this setting use the Nxt Fld and Chg Val buttons the same as described in prior sections of this manual.

Err Log: This shows the status of the Error Log. This is normally set to OFF. If you are working with Rhino technical support you may be asked to turn this ON to gather the necessary information needed to help correct trouble shoot the situation.

Data: Selecting “Data” will bring up the following screen:



Format: Since there is only one field in this screen there is no “Nxt Fld” button. Use the ChgVal button to set the data port to the data protocol required. Standard V.35 and RS232 are available as well as others that Rhino will add as technology develops. **REMEMBER to “Save” your settings before setting “Back”.**

4.f. Alarms and Tests

The “Alarms” and “Tests” will not be used much by you.

When you select “Alarms” you will get the following screen:

```
T1 Alarm Status
  A:10000001  B:00000000  C:00000011
  D:01010111  E:00000000  F:00000000
  Clr YA      Admin      Home
```

This information is low level bit information available at the chip level inside the Rhino Channel Bank. It is used only for Rhino technical support. You may be asked for one of the code words A-F as they contain low level information useful in rare instances where this information might be needed.

When you select “Tests” you will get the following screen:

```
Loopback Tests/Control
      TAIS:OFF   Loop:NONE
NONE      ** No errors detected**
  Nxt Fld   Chg Val   Save   Home
```

Use the Nxt Fld and Chg Val buttons as described in prior sections to navigate between the fields and to change values as needed.

TAIS: You can manually turn ON and OFF the “Blue Alarm” condition. This transmits an unframed all 1s condition on the T1. A carrier technical support person may ask for this as part of testing the T1 installation.

NOTE: The T1 is NOT operational for voice or data if TAIS is left ON!!!

Loop: This gives you the ability to turn on two different loop back conditions. NONE means that there are no loop back conditions present. The following describes the loop back conditions you can select:

Local Loop back: This is used for testing purposes. When this is selected the LIU loopbacks the analog side of the Rhino™ Channel Bank. **FOR NORMAL OPERATION THIS SWITCH SHOULD BE LEFT OFF.**

Remote Loop back: This is also used for testing purposes. When this is selected it will cause the T1 signal received from the T1 line

(network) to be transmitted back onto the T1 line. The T1 signal is sent back to the network exactly as it is received. Since this loop back occurs before the signal gets to the internal framing circuitry the Rhino™ Channel Bank makes no changes to this signal before it is transmitted.

When this is NOT selected (normal operation) the unit will detect a remotely generated loop back code. The carrier may need to remotely loop back the T1 for testing purposes. The carrier can also cancel the remote loop back. To manually cancel the remote loop back - momentarily select Remote Loop Back and then turn it off. **FOR NORMAL OPERATION THIS SHOULD BE OFF.**

5. The LEDs and what they Mean

5.a. What Are The Pretty Lights For?

The Rhino™ Channel Bank has eight status lights on the front of the unit in the center of the black face plate. These lights display status and configuration information about the T1 line and the Rhino™ Channel Bank.

There are four conditions that an LED can be in: OFF, ON, SLOW FLASH, FAST FLASH.

When power is applied the lights will do a “dance” indicating that the unit is going through it’s self test and initialization. Once the dance is complete each light will come alive as it’s representation is assessed.

After the dance and initialization the top right corner of the LCD screen will show the framing and start protocol. Additional information is available via the LEDs as described below.

5.b. Power LED

This LED is green when the power is on. Power is applied by plugging the unit into 110V AC. (A UPS is required by the warranty).

5.c. LOS (Loss of Signal) Indicator – The first LED in the row of seven.

T1 Carrier (GREEN)

Normally (when T1 carrier is detected) - solid ON

Error Modes:

TAIS is being sent - slow flash

No T1 cable is detected- fast flash

LOS (Loss of signal)- slow flash

OOF (Out of Frame and T1 carrier detected) - ON

Receiving All 1's (TAIS) - ON

BPV (Bipolar Violations) - ON

YA (Yellow Alarm) - ON

Remote Loopback (from carrier) - ON

5.d. T1 Network Framing Indicator – The second LED in the row of seven.

This LED is green in color when the Rhino™ Channel Bank has achieved multi-frame synchronization.

Framing (GREEN)

Normally (if synchronization is achieved) - solid ON

Error Conditions

TAIS is being sent - slow flash

No T1 cable is detected - fast flash

OOF (Out of Frame) - slow flash

Receiving All 1's (TAIS) - slow flash

BPV (Bipolar violations) - fast flash

YA (Yellow Alarm) - ON

Remote Loopback (from carrier) - ON

5.e. Signaling Indicator – The third LED in the row of seven.

This LED reports when all timeslots are configured with the same start protocol (signaling).

Signaling (GREEN)

Normal - solid ON if all slots are same signaling,
OFF if at least one is different.

Error Conditions:

TAIS is being sent- slow flash

LOS (Loss of Signal) - fast flash

OOF (Out of Frame) - fast flash

Remote Loopback (from carrier) - fast flash

5.f. Network Alarm Status Indicator – the fourth LED in the row of seven.

This LED indicates the presence of an alarm condition. If this LED is OFF there is no alarm condition on the T1. If this LED is red in color there is an incoming alarm condition on the T1 line.

Alarm Status (RED)

Normal - solid OFF

Error Modes

No T1 cable detected - fast flash

LOS (Loss of Signal) - ON

OOF (Out of Frame) - ON

Receiving All 1's (TAIS) - ON

BPV (Bipolar violations) - ON
YA (Yellow Alarm) - ON
Remote Loopback (from carrier) - fast flash

5.g. Loop Back Indicator – the fifth LED in the row of seven.

Loop Back (RED)

Normal - solid OFF

Error Conditions:

Receiving All 1's (TAIS) - slow flash

5.h. Console Indicator – the sixth LED in the row of seven.

This LED indicates if the console port is active or not.

Console (YELLOW)

Normal - ON if computer is connected via GUI, OFF if not.

Error Conditions:

YA (Yellow Alarm) - slow flash

5.i. Heartbeat Indicator – the seventh LED in the row of seven.

This LED indicates if the unit is operating or not.

Active (YELLOW)

Blinks once per second to depict that the unit is operational.