

**IQSDA20/22/24/25**

**Intelligent Reclocking High Performance  
HD-SDI/SD-SDI Distribution Amplifiers**

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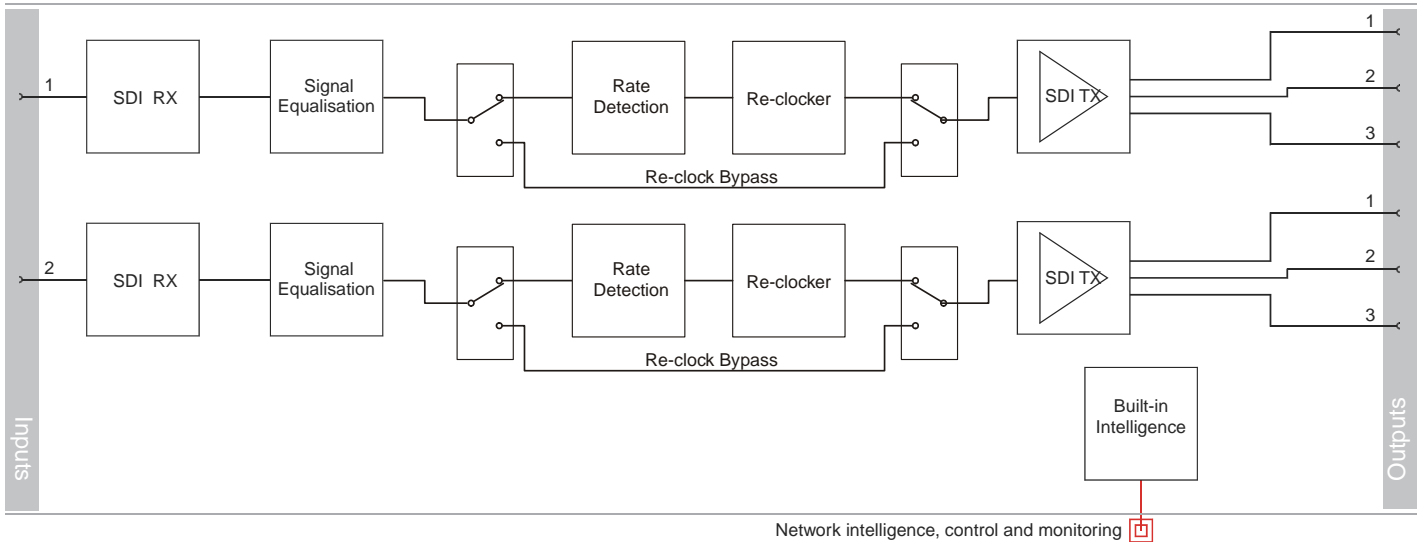


# Module Descriptions

## IQSDA20 Module Description

### Dual Channel HD/SD-SDI Reclocking Distribution Amplifier with RollCall

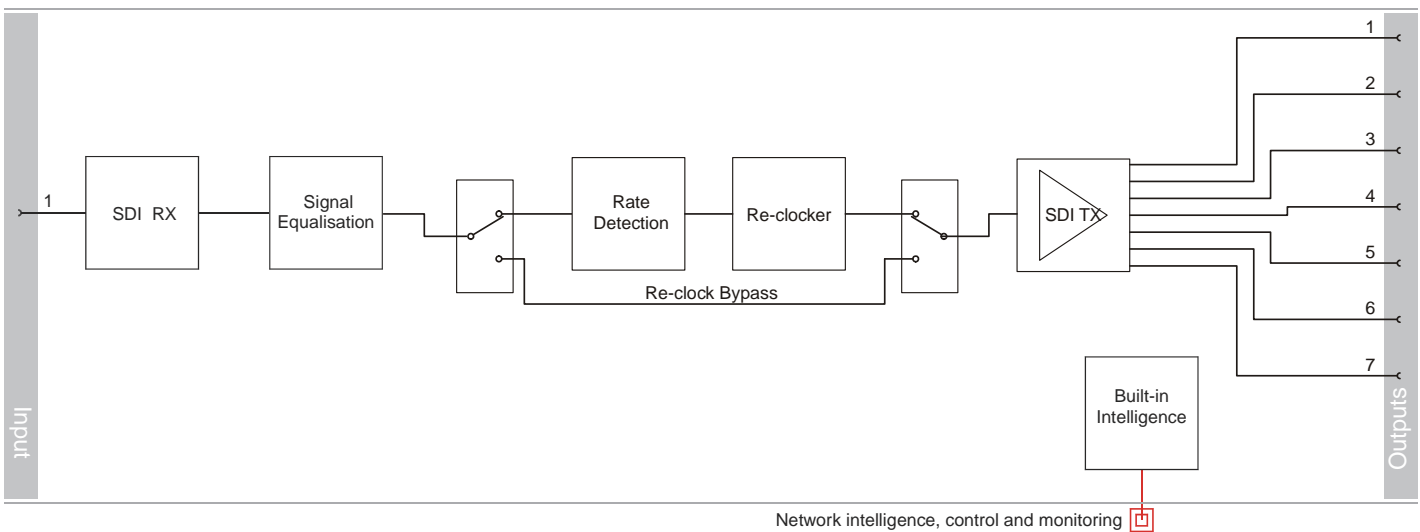
The IQSDA20 provides dual inputs with 3 outputs per input for distribution of HD-SDI 1.5 Gbit/s or 270 Mbit/s SD-SDI signals in a single width package. Its 200m HD input equalization performance and non re-clocking distribution of wide-band signals makes it ideal for all distribution applications.



## IQSDA22 Module Description

### HD/SD-SDI Reclocking Distribution Amplifier with RollCall

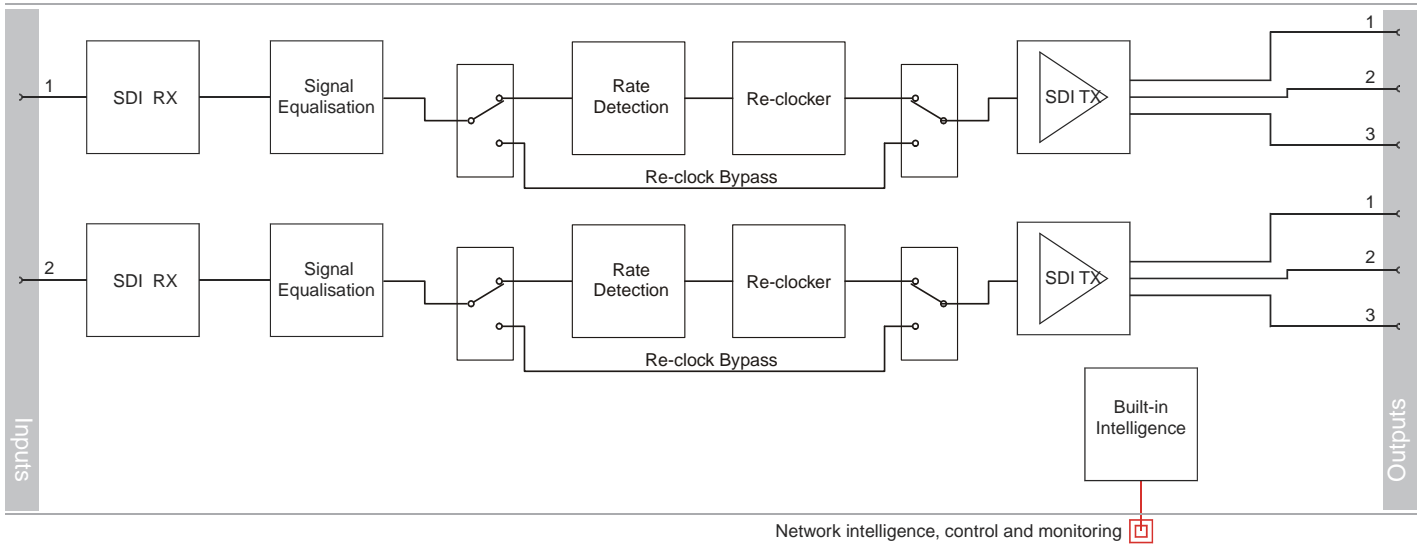
The IQSDA22 is a distribution amplifier for HD-SDI 1.5 Gbit/s or 270 Mbit/s SD-SDI signals providing 7 equalized and reclocked outputs of the input in a single width package. Its 200m HD input equalization performance and non re-clocking distribution of wide-band signals makes it ideal for all distribution applications.



## IQSDA24 Module Description

### Dual Channel HD/SD-SDI Reclocking Distribution Amplifier with RollCall

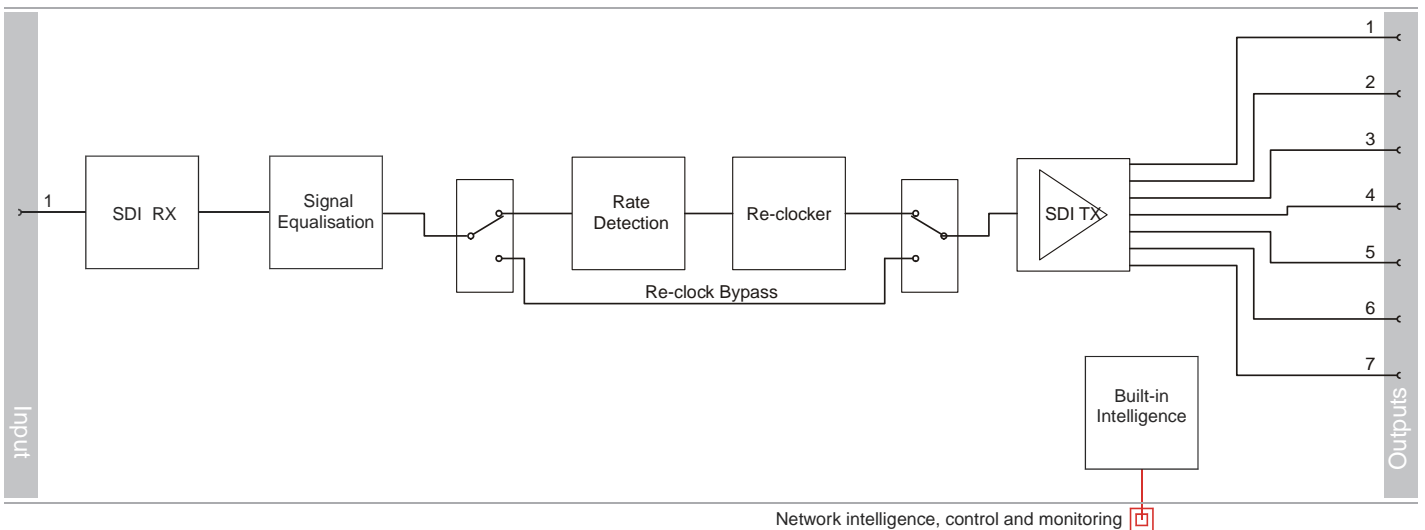
The IQSDA24 provides dual inputs with 3 outputs per input for distribution of 3 Gbit/s HD-SDI, HD-SDI 1.5 Gbit/s or 270 Mbit/s SD-SDI signals in a single width package. Its 200m HD input equalization performance and non re-clocking distribution of wide-band signals makes it ideal for all distribution applications.



## IQSDA25 Module Description

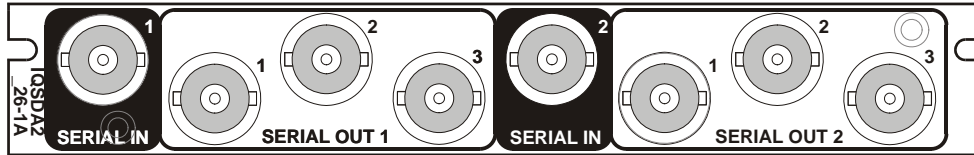
### HD/SD-SDI Reclocking Distribution Amplifier with RollCall

The IQSDA25 is a distribution amplifier for 3 Gbit/s HD-SDI, HD-SDI 1.5 Gbit/s or 270 Mbit/s SD-SDI signals providing 7 equalized and reclocked outputs of the input in a single width package. Its 200m HD input equalization performance and non re-clocking distribution of wide-band signals makes it ideal for all distribution applications.

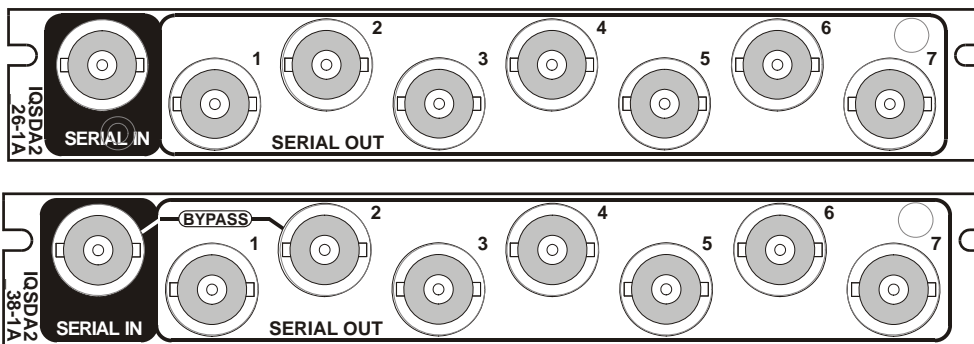


## Rear Panel Views

### IQSDA20 / IQSDA24 Rear Panel View



### IQSDA22 / IQSDA25 Rear Panel View



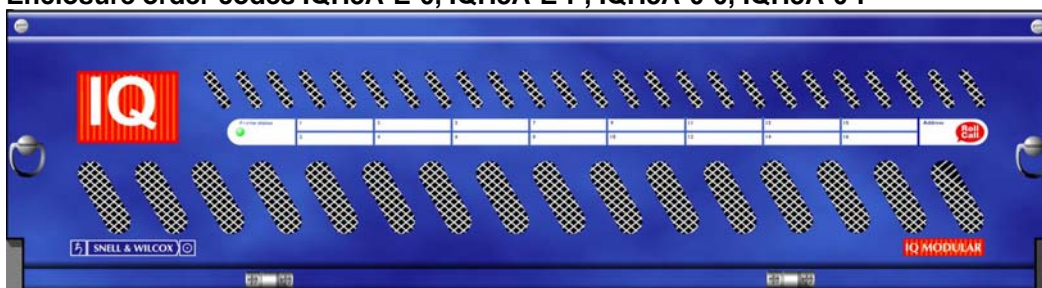
The relay bypass exists between the Serial Input and Output 2 only. In the event of module removal, power failure, or certain types of module failure, the signal from Serial In to Output 2 will be able to bypass the module. The relay bypass is only available on the IQSDA22.

These modules can only be fitted into 'A' style enclosures as shown below.

### Enclosure order codes IQH3A-S-0, IQH3A-S-P



### Enclosure order codes IQH3A-E-0, IQH3A-E-P, IQH3A-0-0, IQH3A-0-P



### Enclosure order code IQH1A-S-P



## Module Versions

- IQSDA20** IQSDA2026-1A  
Dual Channel HD/SD-SDI Reclocking Distribution Amplifier. 2 inputs, 3 outputs per input.
- IQSDA22** IQSDA2226-1A  
HD/SD-SDI Reclocking Distribution Amplifier. 1 input, 7 outputs.
- IQSDA2238-1A  
HD/SD-SDI Reclocking Distribution Amplifier with relay input bypass. 1 input, 7 outputs
- IQSDA24** IQSDA2426-1A  
Dual Channel HD/SD-SDI Reclocking Distribution Amplifier. 3G capable. 2 inputs, 3 outputs per input.
- IQSDA25** IQSDA2526-1A  
HD/SD-SDI Reclocking Distribution Amplifier. 3G capable. 1 input, 7 outputs.

## Features

### IQSDA20 Feature Summary

- Dual channel Intelligent HD-SDI and SD-SDI re-clocking distribution amplifier
- Will distribute DVB-ASI and other wide-band signals
- Equalizes up to 200m at 1.5 Gbit/s and up to 350m at 270 Mbit/s of Belden 1694A cable
- Standards supported:
  - HD-SDI to SMPTE292M
  - SD-SDI to SMPTE259M-C
  - DVB-ASI
- RollCall monitoring allows all signal paths to be managed
- Extremely compact – up to 32 channels in 3RU - for use where space is at a premium

### IQSDA22 Feature Summary

- Intelligent HD-SDI and SD-SDI re-clocking distribution amplifier
- Will distribute DVB-ASI and other wide-band signals
- Equalizes up to 200m at 1.5 Gbit/s and up to 350m at 270 Mbit/s of Belden 1694A cable
- Standards supported:
  - HD-SDI to SMPTE292M
  - SD-SDI to SMPTE259M-C

DVB-ASI

- RollCall monitoring allows all signal paths to be managed
- Emergency input to output bypass option allows added protection for critical signal paths or 24/7 operations

### **IQSDA24 Feature Summary**

- Dual channel Intelligent HD-SDI and SD-SDI re-clocking distribution amplifier
- Will distribute DVB-ASI and other wide-band signals
- Equalizes up to 100m at 3 Gbit/s, 200m at 1.5 Gbit/s and up to 350 m at 270 Mbit/s of Belden 1694A cable
- Standards supported:
  - 3G HD-SDI to SMPTE424M
  - HD-SDI to SMPTE292M
  - SD-SDI to SMPTE259M-C
  - DVB-ASI
- RollCall monitoring allows all signal paths to be managed
- Extremely compact – up to 32 channels in 3RU - for use where space is at a premium

### **IQSDA25 Feature Summary**

- Intelligent HD-SDI and SD-SDI re-clocking distribution amplifier
- Will distribute DVB-ASI and other wide-band signals
- Equalizes up to 100m at 3 Gbit/s, 200m at 1.5 Gbit/s and up to 350 m at 270 Mbit/s of Belden 1694A cable
- Standards supported:
  - 3G HD-SDI to SMPTE424M
  - HD-SDI to SMPTE292M
  - SD-SDI to SMPTE259M-C
  - DVB-ASI
- RollCall monitoring allows all signal paths to be managed

# Technical Profiles

## IQSDA20 Technical Profile

### Inputs & Outputs

#### Signal Input

HD / SD-SDI Inputs ..... 2x

Input Cable Length ..... Up to 200m Belden 1694A @ 1.5 Gbit/s  
Up to 350m Belden 1694A @ 270 Mbit/s

#### Signal Outputs

HD / SD-SDI Outputs ..... x3 per input

### Controls

#### Indicators

Power ..... OK (Green)

CPU ..... OK (Green flashing)

Status ..... OK (Green)  
Warning (Yellow)  
Error (Red)

Input 1 ..... OK/Bypass (Green)  
Unknown/Bypass (Yellow)  
Loss (Red)  
Rate (Green)

Input 2 ..... OK/Bypass (Green)  
Unknown/Bypass (Yellow)  
Loss (Red)  
Rate (Green)

#### RollCall Functions

Input 1 (2) select ..... Auto, HD,  
SD/DVB-ASI,  
Bypass (reclocking off)

Input Status ..... Present, Loss/Unknown, Data Rate

Logging ..... Input 1 (2) Type  
Input 1 (2) Data Rate  
Input 1 (2) Present  
Input 1 (2) Error  
Input 1 (2) Loss

RollTrack Controls ..... On/Off, Index, Source, Address, Command, Status, Sending.

RollTrack Outputs ..... Unused  
Input 1 (2) Present  
Input 1 (2) Loss  
Input 1(2) HD  
Input 1(2) SD

#### Other Controls

User Memories ..... Name, save and recall 16 user memories

### Specifications

Electrical ..... 1.5Gbit/s HD-SDI, SMPTE 292M  
270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI

Connector / Format ..... BNC/ 75ohm panel jack on standard S&W connector panel

Return loss ..... > 15dB @ 1.5Gbit/s

Output Jitter ..... SD-SDI 0.2 UI (10Hz) / 0.2 UI (100KHz)  
HD-SDI 1.0 UI (10Hz) / 0.2 UI (100KHz)

#### Power Consumption

Power Consumption ..... <3W Max



## IQSDA22 Technical Profile

### Inputs & Outputs

#### Signal Input

HD / SD-SDI Input ..... 1x

Input Cable Length ..... Up to 200m Belden 1694A @ 1.5 Gbit/s  
(40m input cable length and 35m output cable length, relay bypass version. Belden 1694A @ 1.5 Gbit/s)  
Up to 350m Belden 1694A @ 270 Mbit/s

Note: Specified cable lengths are a guide only. Exact cable length performance will depend on the quality of the cable used, the SDI video rate and the system setup. It is advisable not to cascade modules using the relay rear version although it may be possible if the interconnecting cable lengths are kept to an absolute minimum.

#### Signal Outputs

HD / SD-SDI Outputs ..... x7 (1, 3, 5, 7 DVB-ASI compatible)

### Controls

#### Indicators

Power ..... OK (Green)  
CPU ..... OK (Green flashing)  
Input ..... OK/Bypass (Green)  
Loss (Red)

#### RollCall Functions

Input select ..... Auto, HD, SD, DVB-ASI, Bypass (reclocking off)  
Input Status ..... Present, Loss/Unknown, Data Rate  
Logging ..... Input Type  
Input Data Rate  
Input Present  
Input Error  
Input Loss  
RollTrack Controls ..... On/Off, Index, Source, Address, Command, Status, Sending.  
RollTrack Outputs ..... Unused  
Input Present  
Input Rate Unknown  
Input Loss  
Input HD  
Input SD

#### Other Controls

User Memories ..... Name, save and recall 16 user memories

### Specifications

Electrical ..... 1.5Gbit/s HD-SDI, SMPTE 292M  
270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI  
Connector / Format ..... BNC/ 75ohm panel jack on standard S&W connector panel  
Output Jitter ..... SD-SDI 0.2 UI (10Hz) / 0.2 UI (1KHz)  
HD-SDI 1.0 UI (10Hz) / 0.2 UI (100KHz)  
Return loss ..... > -15dB  
Relay bypass versions  
Input Return Loss: ..... > -8dB (When not in BYPASS mode)  
Output Return Loss: ..... > -8dB (When not in BYPASS mode)

#### Power Consumption

Module Power  
Consumption ..... 3W max  
3.5 W max – Relay Bypass Version

## IQSDA24 Technical Profile

### Inputs & Outputs

#### Signal Input

HD / SD-SDI Inputs ..... 2x

Input Cable Length ..... Up to 100m Belden 1694A @ 3 Gbit/s\*  
 Up to 200m Belden 1694A @ 1.5 Gbit/s  
 Up to 350m Belden 1694A @ 270 Mbit/s

#### Signal Outputs

HD / SD-SDI Outputs ..... x3 per input

### Controls

#### Indicators

Power ..... OK  
 CPU ..... OK (Green flashing)  
 Status ..... OK (Green)  
   Warning (Yellow)  
   Error (Red)  
 Input 1 ..... OK (Green)  
   Unknown (Yellow)  
   Loss (Red)  
   Rate (Green)  
 Input 2 ..... OK (Green)  
   Unknown (Yellow)  
   Loss (Red)  
   Rate (Green)

#### RollCall Functions

Input 1 (2) select ..... Auto, 3G, HD, SD/DVB-ASI  
 Input 1 (2) Reclock ..... On, Off  
 Mute outputs on input 1 (2) loss  
   On, Off  
 Input Status ..... Present, Loss, Data Rate  
 Logging ..... Input 1 (2) Data Rate  
   Input 1 (2) Present  
   Input 1 (2) Unknown  
   Input 1 (2) Loss  
 RollTrack Controls ..... On/Off, Index, Source, Address, Command, Status, Sending.  
 RollTrack Outputs ..... Unused  
   Input 1 (2) Present  
   Input 1 (2) Unknown  
   Input 1 (2) Loss  
   Input 1(2) 3G\*  
   Input 1(2) HD  
   Input 1(2) SD

#### Other Controls

User Memories ..... Name, save and recall 16 user memories

### Specifications

Electrical ..... 3 Gbit/s HD-SDI, SMPTE 424M  
   1.5Gbit/s HD-SDI, SMPTE 292M  
   270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI  
 Connector / Format ..... BNC/ 75ohm panel jack on standard S&W connector panel  
 Return loss ..... > 15dB @ 1.5Gbit/s

#### Power Consumption

Power Consumption ..... <3W Max

## **IQSDA25 Technical Profile**

### **Inputs & Outputs**

#### **Signal Input**

HD / SD-SDI Input ..... 1x

Input Cable Length ..... Up to 100m Belden 1694A @ 3 Gbit/s  
 Up to 200m Belden 1694A @ 1.5 Gbit/s  
 Up to 350m Belden 1694A @ 270 Mbit/s

#### **Signal Outputs**

HD / SD-SDI Outputs ..... x7

### **Controls**

#### **Indicators**

Power ..... OK

CPU ..... OK (Green flashing)

Status ..... OK (Green)  
 Warning (Yellow)  
 Error (Red)

Input 1 ..... OK (Green)  
 Unknown (Yellow)  
 Loss (Red)  
 Rate (Green)

#### **RollCall Functions**

Input select ..... Auto, 3G, HD, SD/DVB-ASI

Reclock ..... On, Off

Mute outputs on input loss . On, Off

Input Status ..... Present, Loss, Data Rate

Logging ..... Input 1 Data Rate  
 Input 1 Present  
 Input 1 Unknown  
 Input 1 Loss

RollTrack Controls ..... On/Off, Index, Source, Address, Command, Status, Sending.

RollTrack Outputs ..... Unused  
 Input 1 Present  
 Input 1 Unknown  
 Input 1 Loss  
 Input 1 3G  
 Input 1 HD  
 Input 1 SD

#### **Other Controls**

User Memories ..... Name, save and recall 16 user memories

### **Specifications**

Electrical ..... 3 Gbit/s HD-SDI, SMPTE 424M  
 1.5Gbit/s HD-SDI, SMPTE 292M  
 270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI

Connector / Format ..... BNC/ 75ohm panel jack on standard S&W connector panel

Return loss ..... > 15dB @ 1.5Gbit/s

#### **Power Consumption**

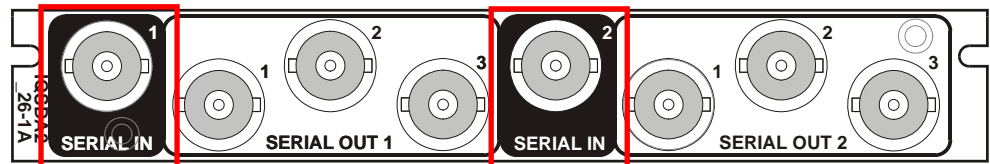
Power Consumption ..... <3W Max

## Connections

### Inputs

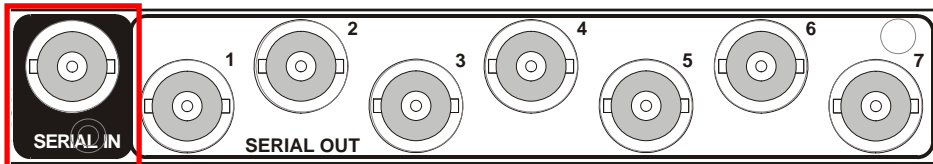
#### IQSDA20 / IQSDA24 Serial Digital Video Inputs

The serial digital input to the unit is made via two BNC connectors, which terminate in 75 Ohms.



#### IQSDA22 / IQSDA25 Serial Digital Video Inputs

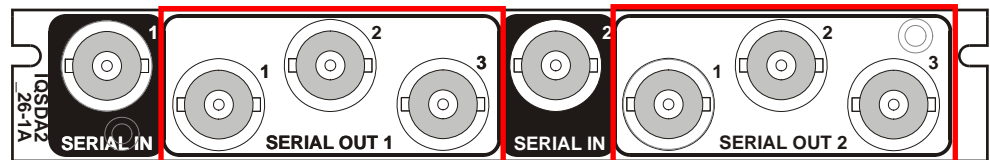
The serial digital input to the unit is made via a BNC connector, which terminates in 75 Ohms.



### Outputs

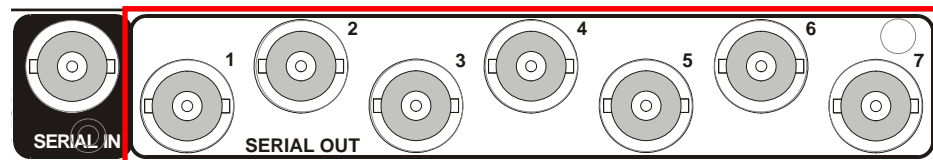
#### IQSDA20 / IQSDA25 Serial Digital Video Outputs

There are six serial digital outputs on the unit, three for each input, made via BNC connectors for 75 Ohms.



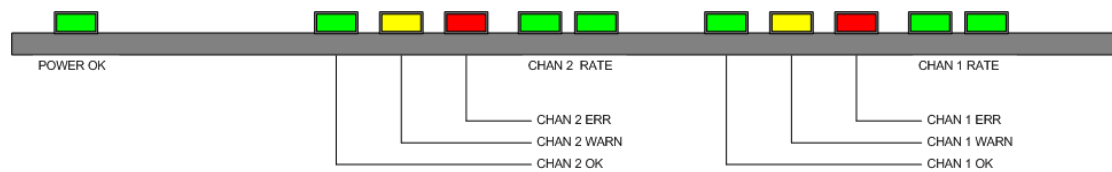
#### IQSDA22 / IQSDA25 Serial Digital Video Outputs

There are 7 serial digital outputs on the unit, made via BNC connectors for 75 Ohms.



**Note:** DVB-ASI is only be available on the non-inverting outputs 1, 3, 5 and 7

## Card Edge Controls



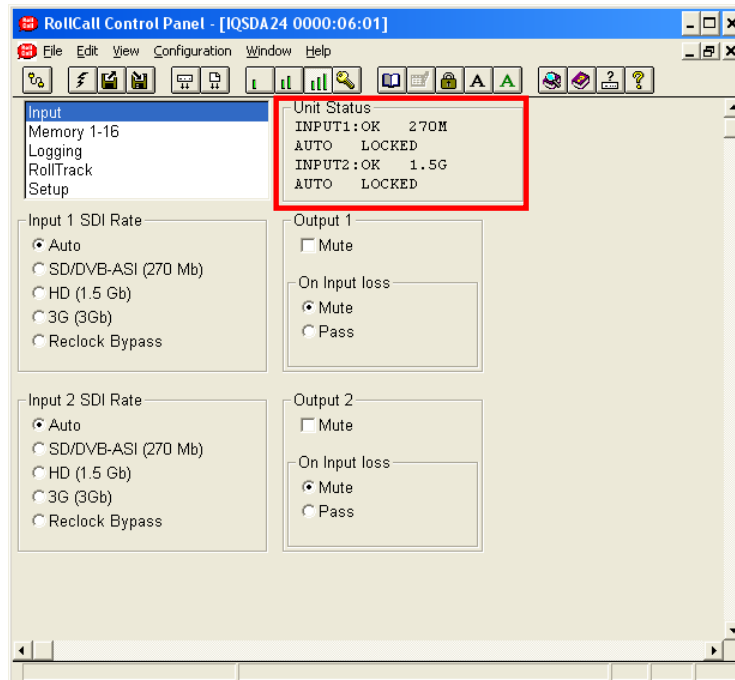
The LEDs on the edge of the module indicate its operating status.

- |                        |   |
|------------------------|---|
| <b>Power OK</b>        | This indicator is illuminated when a positive power supply is present.  |
| <b>Channel 1 OK</b>    | This indicator is illuminated when input channel 1 is locked to the input signal.   |
| <b>Channel 1 Warn</b>  | This indicator is illuminated when the signal on input channel 1 is not being reclocked. That is, in reclock bypass mode.   |
| <b>Channel 1 Error</b> | This indicator is illuminated when there is unknown or no input on input channel 1.   |
| <b>Channel 1 Rate</b>  | This indicator pair shows the rate on input channel 1 as follows: <ul style="list-style-type: none"> <li>• Both LEDs illuminated – 3 Gbit/s</li> <li>• Left LED only illuminated – 1.5 Gbit/s</li> <li>• Right LED only illuminated – 270 Mbit/s</li> <li>• Both LEDs off – Rate unknown</li> </ul> |
| <b>Channel 2 OK</b>    | This indicator is illuminated when input channel 2 is locked to the input signal.   |
| <b>Channel 2 Warn</b>  | This indicator is illuminated when the signal on input channel 2 is not being reclocked. That is, in reclock bypass mode.   |
| <b>Channel 2 Error</b> | This indicator is illuminated when there is unknown or no input on input channel 2.   |
| <b>Channel 2 Rate</b>  | This indicator pair shows the rate on input channel 2 as follows: <ul style="list-style-type: none"> <li>• Both LEDs illuminated – 3 Gbit/s</li> <li>• Left LED only illuminated – 2.5 Gbit/s</li> <li>• Right LED only illuminated – 270 Mbit/s</li> <li>• Both LEDs off – Rate unknown</li> </ul> |

## Controlling the IQSDA20/22/24/25 from the RollCall Control Panel

### Unit Status

Information about the status of the unit is displayed in the Unit Status section on each RollCall Control Panel screen.



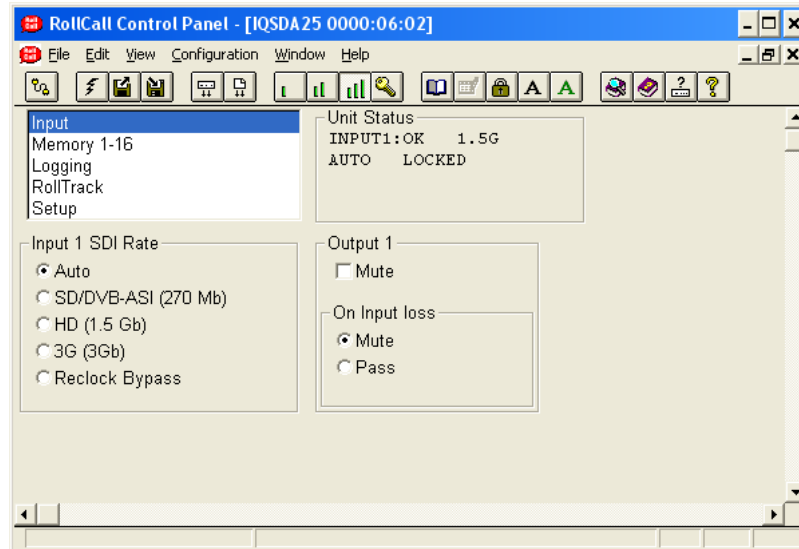
The first two lines of the Unit Status display the input status, detected rate, and input selection method for Input 1.

The third and fourth lines of the Unit Status display the same information for Input 2.

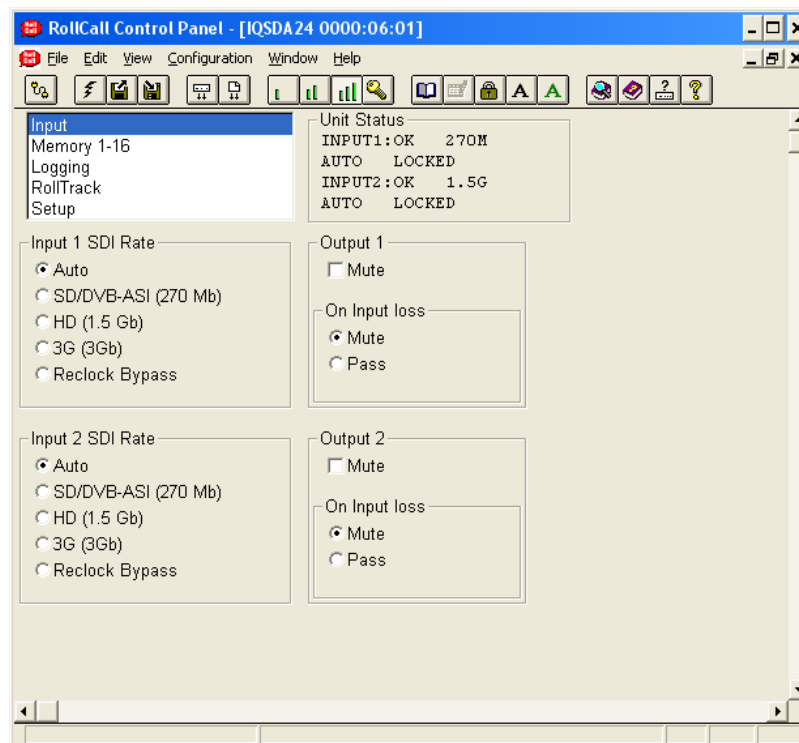
## Input

The input screen enables the type of input signal to be selected.

### Single Input Modules (IQSDA22 and IQSDA25)



### Dual Input Modules (IQSDA20 and IQSDA24)



### Input 1 SDI Rate

- **Auto:** When selected, the unit will automatically detect and reclock any valid input signal, and the detected rate will be displayed in the Unit Status.

If anything else is detected, the output will not be reclocked. If the **On Input Loss / Mute** option is selected, the output will be muted; or, if the

**On Input Loss / Pass** option is selected, the output will be passed through.

- **SD/DVB-ASI (270 Mb):** When selected, the unit will reclock only SD/DVB-ASI (270 Mb) signals.

If anything else is detected, the output will not be reclocked. If the **On Input Loss / Mute** option is selected, the output will be muted; or, if the **On Input Loss / Pass** option is selected, the output will be passed through.

- **HD (1.5 Gb):** When selected, the unit will reclock only HD (1.5 Gb) signals.

If anything else is detected, the output will not be reclocked. If the **On Input Loss / Mute** option is selected, the output will be muted; or, if the **On Input Loss / Pass** option is selected, the output will be passed through.

- **3G (3 Gb):** When selected, the unit will reclock only 3G (3 Gb) signals. This option is only available with the IQSDA24 and IQSDA25.

If anything else is detected, the output will not be reclocked. If the **On Input Loss / Mute** option is selected, the output will be muted; or, if the **On Input Loss / Pass** option is selected, the output will be passed through.

- **Reclock Bypass:** When selected, the unit will not reclock the input signal. If a supported rate is detected, the Unit Status will display the detected rate, otherwise, \*\*\* will be displayed.

If the **On Input Loss / Mute** option is selected, the output will be muted whenever a recognized rate is not detected; or, if the **On Input Loss / Pass** option is selected, any signal standard, frequency, etc... will pass through.

## Output 1

- **Mute:** When selected, this option applies a mute on Output 1.
- **On Input loss / Mute:** When selected, if the Input signal is lost, the output signal will be muted.
- **On Input loss / Pass:** When selected, if the input signal is lost, it will be passed unchanged.

## Input 2 SDI Rate and Output 2

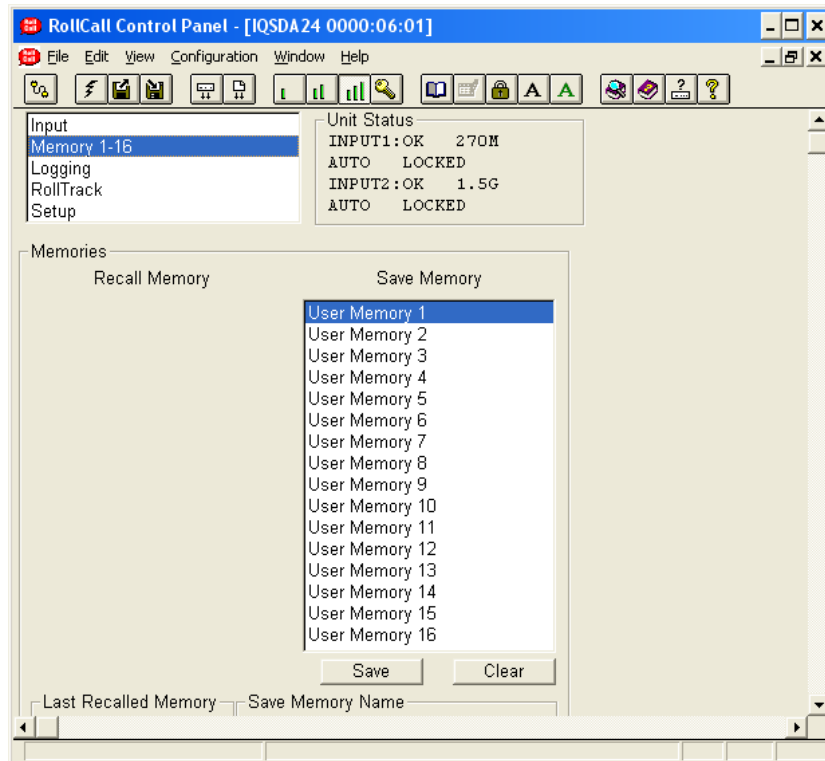
These options are the same as the Input 1 SDI Rate and Output 1 options but are applied to Input 2 and Output 2. They are only available with the IQSDA20 and IQSDA 24.



## Memory 1-16

Use the Memory function to save up to 16 setups to be recalled later.



Default memory names can be changed to provide more meaningful descriptions.



To save settings:

- In the **Save Memory** column, select a memory location, and then click **Save**. The current settings are saved and the memory appears in the **Recall Memory** column.

To change a memory name:

- In the **Save Memory Name** field, type the new memory name, and then click the arrow button . To return the memory to its default value, click the preset button .

Use the **Recall Memory** function to recall the settings saved in a memory location. **Last Recalled Memory** displays the most recently recalled memory.

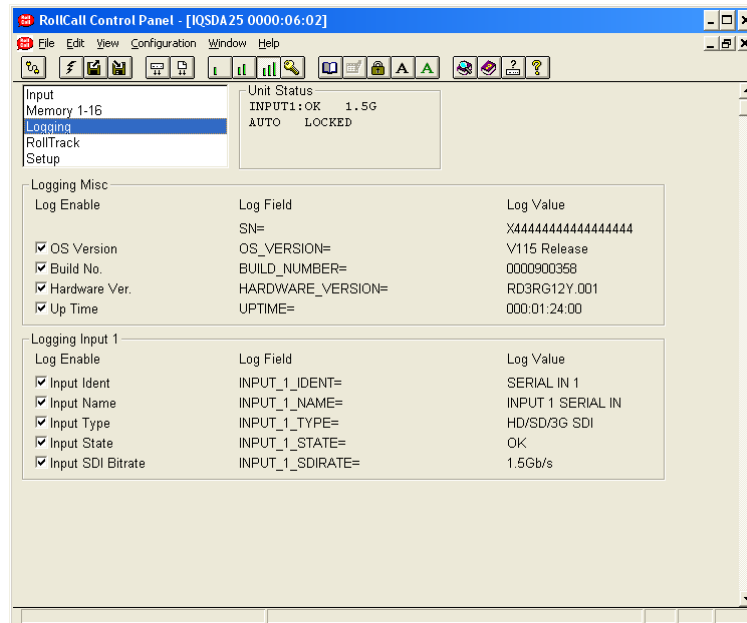
To recall a memory:

- In the **Recall Memory** column, select the memory to recall. The recalled settings will be applied and the memory name will appear in the **Last Recalled Memory** section.

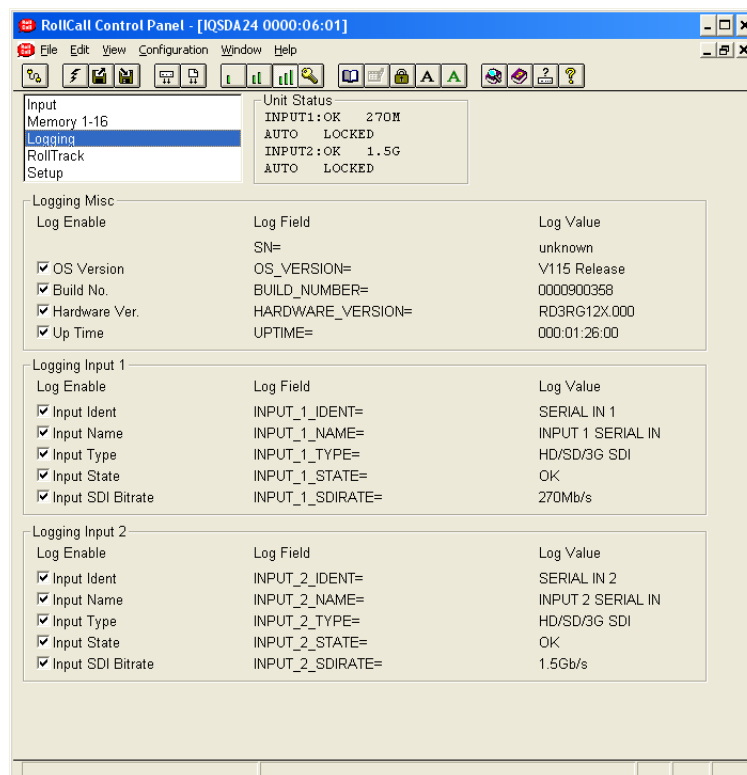
## Logging

Information about several parameters can be made available to a logging device that is connected to the RollCall network.

### Single Input Modules (IQSDA22 and IQSDA25)



### Dual Input Modules (IQSDA20 and IQSDA24)



Each logging screen comprises three columns:

- **Log Enable:** Select the check boxes that correspond to the parameters for which log information should be collected.

- **Log Field:** Displays the name of the logging field.
- **Log Value:** Displays the current log value.

### RollCall Log Fields

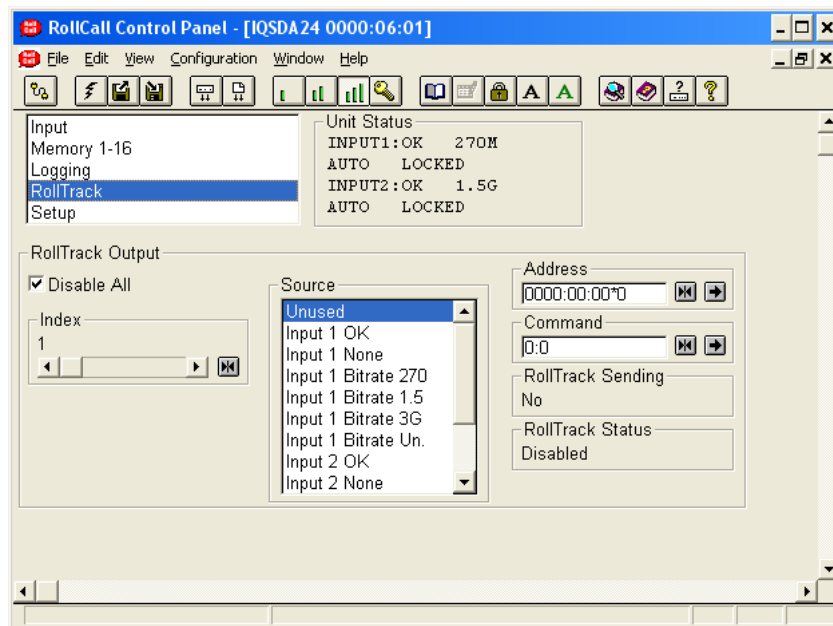
Log Field	Log Value
SN=	<Serial number>
OS_VERSION=	<Operating system version>
BUILD_NUMBER=	<Software build number>
HARDWARE_VERSION=	<Hardware version number>
UPTIME=	<Time since last restart>
INPUT_N_IDENT=	<Input ident>
INPUT_N_NAME=	<Input name>
INPUT_N_TYPE=	<Input type>
INPUT_N_STATE=	OK, WARN, FAIL
INPUT_N_SDIRATE=	<Input bitrate>

## RollTrack

The RollTrack settings allow information to be sent, by means of the RollCall network, to other compatible units on the same network.

Use the settings on the **RollTrack** screen to:

- Enable or disable the RollTrack functions.
- Configure up to 16 RollTrack outputs.
- Specify the conditions that trigger RollTrack data transmission.
- Set RollTrack destinations.
- Specify the RollTrack commands to be sent.



### RollTrack Sources

The RollTrack Source specifies the source of the information that triggers the transmission of data.

### RollTrack Addresses

The full RollTrack Address comprises four sets of numbers. For example, 0000:10:01\*99.

The first set, 0000 in the example, is the network segment code number.

The second set, 10 in the example, identifies the (enclosure/mainframe) unit.

The third set, 01 in the example, identifies the slot number in the unit.

The fourth set, 99 in the example, is a user-configured number that uniquely identifies the destination unit in a multi-unit system. This ensures that only the correct unit responds to commands. If left at 00, an incorrectly fitted unit may respond inappropriately.

### RollTrack Commands

Each RollTrack command comprises two sets of numbers, for example, 33039:3.

The first set, 33039 in the example, is the RollTrack command number, which identifies the command.





The second set, 3 in the example, is the value that is sent with the command.

## Using RollTracks

### To enable or disable RollTrack functions:

- To enable the RollTrack functions, clear the **Disable All** check box.
- To disable RollTrack functions, select the **Disable All** check box.

### To configure a RollTrack action:

1. Select the **Index** number. This identifies the RollTrack action being configured. Up to 16 RollTrack actions can be created.
2. From the **Source** list, select the source of the information that will trigger RollTrack transmission.
3. Enter the RollTrack **Address** and click the arrow button . To return the address to its default value, click the preset button .
4. Enter the RollTrack **Command** and click the arrow button . To return the value to its default, click the preset button .

## Viewing RollTrack Information

**RollTrack Sending** and **RollTrack Status** display information about the status of RollTracks.

**RollTrack Sending** displays the information when the unit is actively sending a RollTrack command:

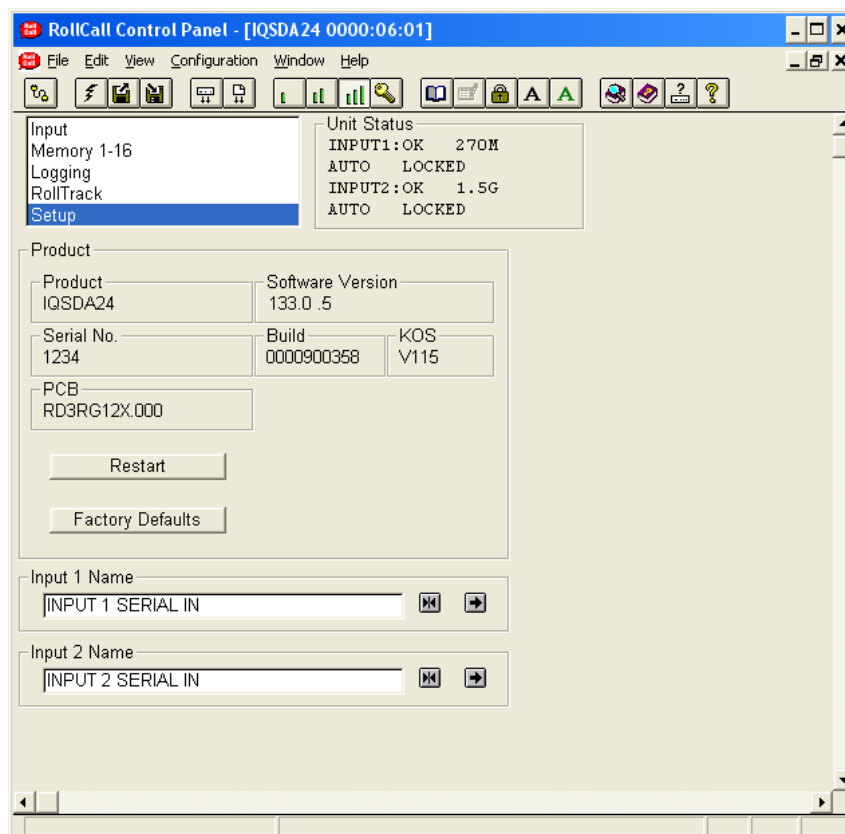
- **No**: The command is not being sent.
- **Yes**: The command is being sent.

**RollTrack Status** displays the status of the currently selected RollTrack Index:

- **OK**: RollTrack message sent and received OK.
- **Unknown**: RollTrack message has been sent but has not yet completed.
- **Timeout**: RollTrack message sent, but acknowledgement not received. This could be because the destination unit is not at the specified location.
- **Bad**: RollTrack message has not been sent correctly, acknowledged at the destination unit. This could be because the destination unit is not of the type specified.
- **Disabled**: RollTrack sending is disabled.

## Setup

The **Setup** screen displays basic information about the unit. Use the functions on the screen to restart the unit, return all settings to their factory defaults, and to change the names of the inputs.



On the **Setup** screen, the following information is displayed:



- **Product:** This displays the name of the module.
- **Software Version:** This displays the currently installed software version number.
- **Serial No:** This displays the unit's serial number.
- **Build:** This displays the factory build number. This number identifies all parameters of the unit.
- **KOS:** This displays the operating system version number.
- **PCB:** This displays the PCB revision number.

To reboot the unit, simulating a power-up/power-down cycle, click **Restart**.

To reset all of the unit's settings to their factory defaults, click **Factory Defaults**.

**Note:** resetting the unit to its factory defaults will also clear all the saved memory settings.

### Input 1 Name and Input 2 Name

These are the input names displayed in logging. To change the name of Input 1 or Input 2, type the name in the text field and click . To return the name to its factory default, click .

## Operation from an Active Control Panel

The module can be operated from an active control panel via the RollCall™ network.

All operational parameters and selections described in the previous section are made using a system of menus displayed in the two LCD windows – the Information window and the Control window.



### Information Window

The information window contains four lines of text indicating the current state of the unit.



### Control Window

The Control window displays all selection menus and sub-menus.

The main or top level menu allows various sub-menus to be selected by pressing the button adjacent to the required text line.

Note that where a menu item is followed by three dots (...) this indicates that a further sub-menu may be selected.

Whenever a menu item is selected the parameters of that selection will be displayed in the Information window of the front panel. Where the selection is purely a mode selection and does not enable a sub-menu, the text will become reversed (white-on-black) indicating that the mode is active. If the mode is not available for selection the text will remain normal.



