

User Instruction Manual

IQSDA30/IQSDA32

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

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Contents

Information and Notices	2
1. Introduction	5
1.1 Module Description	5
1.1.1 IQSDA30	5
1.1.2 IQSDA32	5
1.2 Order Codes	6
1.2.1 IQSDA30	6
1.2.2 IQSDA32	6
1.3 Rear Panel View	7
1.3.1 IQSDA30	7
1.3.2 IQSDA32	7
1.4 Enclosures	8
1.4.1 B-style Enclosure	8
1.4.2 A-style Enclosures	8
1.5 Feature Summary	9
1.5.1 IQSDA30	9
1.5.2 IQSDA32	9
2. Technical Specification	10
2.1 IQSDA30	10
2.2 IQSDA32	12
3. Connections	14
3.1 IQSDA30	14
3.1.1 Inputs	14
3.1.2 Outputs	14
3.2 IQSDA32	15
3.2.1 Inputs	15
3.2.2 Outputs	15
4. Card Edge LEDs	16
5. Controlling the IQSDA30/32 from the RollCall Control Panel	17
5.1 Unit Status	17
5.2 Input	18
5.2.1 Input 1 SDI Rate	18
5.2.2 Output 1	19
5.2.3 Input 2 SDI Rate and Output 2 (IQSDA30 only)	19
5.3 Memory 1-16	20
5.4 Logging	21
5.4.1 Log Field Descriptions	22
5.5 RollTrack	23
5.5.1 Disable All	23
5.5.2 RollTrack Index	23
5.5.3 RollTrack Source	23
5.5.4 RollTrack Address	24
5.5.5 RollTrack Command	24
5.5.6 RollTrack Sending	24
5.5.7 RollTrack Status	24

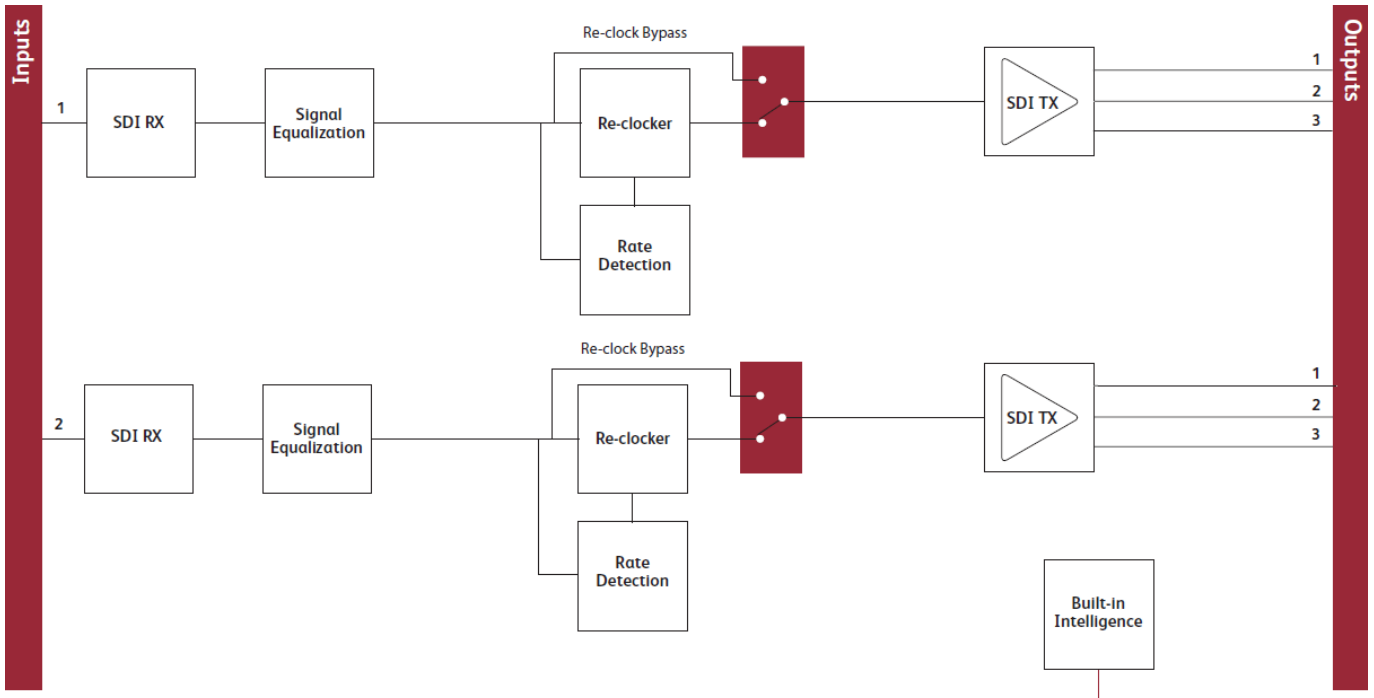
5.6 Setup	25
5.6.1 Product Information	25
5.6.2 Default Settings	25
5.6.3 Factory Defaults	25
5.6.4 Restart	26
5.6.5 Input 1/2 Name	26
6. Controlling the IQSDA30/32 from an Active Front Panel	27
6.1 Information Window	27
6.2 Control Window	27

1. Introduction

1.1 Module Description

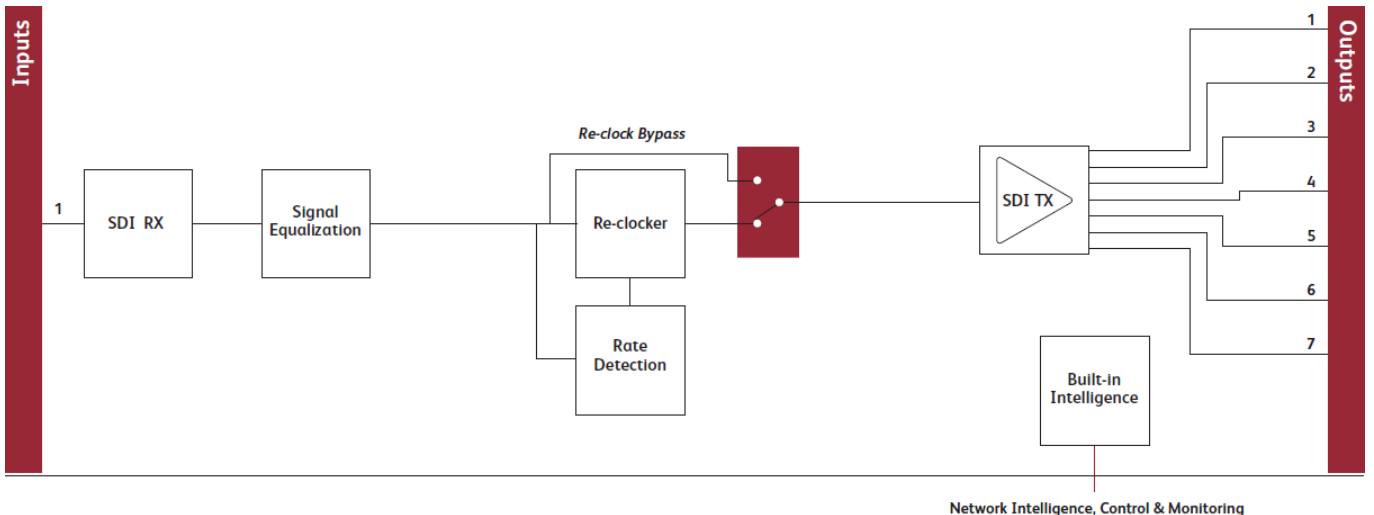
1.1.1 IQSDA30

The IQSDA30 provides dual inputs with 3 outputs per input for distribution of HD-SDI 3 Gbit/s, 1.5 Gbit/s or 270 Mbit/s SD-SDI signals in a single width package. Its 80m 3G, 180m HD input equalization performance and non re-clocking distribution of wide-band signals make it ideal for all distribution applications. For HD/SD only applications an HD/SD-SDI version is available, with an option to upgrade firmware for 3 Gbit/s operation when required.



1.1.2 IQSDA32

The IQSDA32 is a distribution amplifier for HD-SDI 3 Gbit/s, 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 80m 3G, 180m HD input equalization performance and non re-clocking distribution of wide-band signals make it ideal for all distribution applications. For HD/SD only applications an HD/SD-SDI version is available, with an option to upgrade firmware for 3 Gbit/s operation when required.



1.2 Order Codes

The following product order codes are covered by this manual.

Note: Modules with “A” order codes (for example, IQSDA3047-1**A**) can be fitted into either A- or B-style enclosures. Modules with “B” order codes (for example, IQSDA3047-1**B**) can only be fitted into B-style enclosures. See page 8.

1.2.1 IQSDA30

IQSDA3047-1A IQSDA3047-1B	Dual Channel HD/SD-SDI Reclocking Distribution Amplifier. 2 inputs, 3 outputs per input.
IQSDA3047-1A3 IQSDA3047-1B3	Dual Channel 3G/HD/SD-SDI Reclocking Distribution Amplifier. 2 inputs, 3 outputs per input.
IQSDA3061-1A3 IQSDA3061-1B3	Dual Channel 3G/HD/SD-SDI Re-clocking Distribution Amplifier with relay input bypass. 2 inputs, 2 outputs per input.
IQSDA30-3G	Upgrade for IQSDA30 Dual Channel HD/SD-SDI Reclocking Distribution Amplifier to operate with 3 Gbit/s SDI signals.

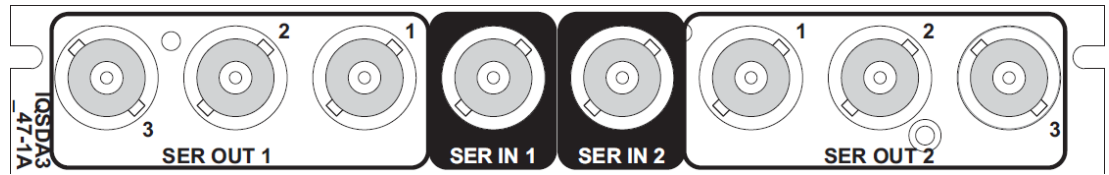
1.2.2 IQSDA32

IQSDA3247-1A IQSDA3247-1B	HD/SD-SDI Reclocking Distribution Amplifier. 1 input, 7 outputs.
IQSDA3247-1A3 IQSDA3247-1B3	3G/HD/SD-SDI Reclocking Distribution Amplifier. 1 input, 7 outputs.
IQSDA3261-1A IQSDA3261-1B	HD/SD-SDI Reclocking Distribution Amplifier. 1 input, 6 outputs, relay bypass.
IQSDA3261-1A3 IQSDA3261-1B3	3G/HD/SD-SDI Reclocking Distribution Amplifier. 1 input, 6 outputs, relay bypass.
IQSDA32-3G	Upgrade for IQSDA32 HD/SD-SDI Reclocking Distribution Amplifier to operate with 3 Gbit/s SDI signals.

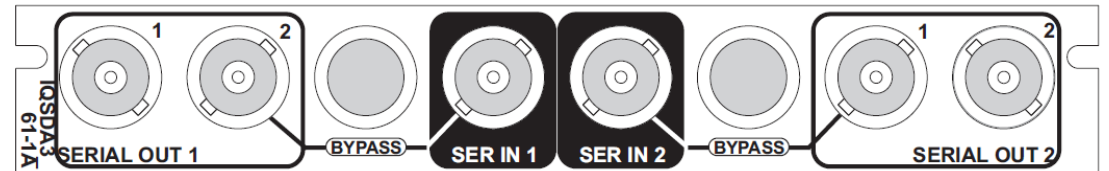
1.3 Rear Panel View

The following rear panel types are available.

1.3.1 IQSDA30



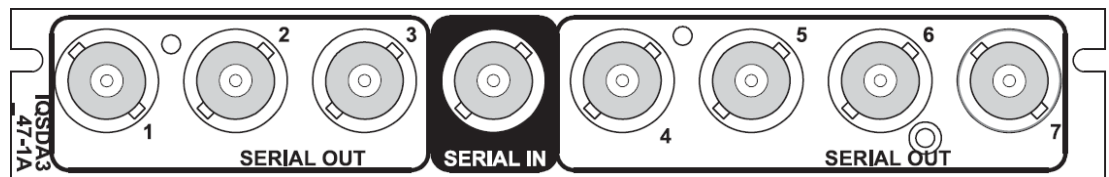
IQSDA3047-1A(B) / IQSDA3047-1A(B)3



IQSDA3061-1A(B)3

Note: The input signal will bypass the module and be routed to the respective output in the event of module removal or power failure.

1.3.2 IQSDA32



IQSDA3247-1A(B) / IQSDA3247-1A(B)3



IQSDA3261-1A(B) / IQSDA3261-1A(B)3

Note: The input signal will bypass the module and be routed to the respective output in the event of module removal or power failure.

1.4 Enclosures

The module can be fitted into the enclosure types shown.

Important:

Although IQ modules are interchangeable between enclosures, their rear panels are enclosure specific. An IQH3B enclosure accepts modules with either “A” or “B” order codes. An IQH3A or IQH1A enclosure accepts modules with “A” order codes only. See page 6.

1.4.1 B-style Enclosure



Enclosure order codes: IQH3B-S-0, IQH3B-S-P

1.4.2 A-style Enclosures



Enclosure order code: IQH1A-S-P



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

1.5 Feature Summary

The IQSDA30 and IQSDA32 provide the following features.

1.5.1 IQSDA30

- Dual channel Intelligent 3 Gbit/s SDI, HD-SDI and SD-SDI re-clocking distribution amplifier
- Will distribute DVB-ASI and other wide-band signals
- Equalizes up to 80m at 3 Gbit/s, 180m at 1.5 Gbit/s and more than 350m at 270 Mbit/s when using Belden 1694A cable
- Standards supported:
 - 3G-HD to SMPTE424M
 - HD-SDI to SMPTE292M
 - SD-SDI to SMPTE259M-C
 - DVB-ASI
- Relay Bypass option available
- 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

1.5.2 IQSDA32

- Intelligent 3 Gbit/s SDI, HD-SDI and SD-SDI re-clocking distribution amplifier
- Will distribute DVB-ASI and other wide-band signals
- Equalizes up to 80m at 3 Gbit/s, 180m at 1.5 Gbit/s and more than 350m at 270 Mbit/s when using Belden 1694A cable
- Standards supported:
 - 3G-HD to SMPTE424M
 - HD-SDI to SMPTE292M
 - SD-SDI to SMPTE259M-C
 - DVB-ASI
- Relay Bypass option available
- RollCall monitoring allows all signal paths to be managed

2. Technical Specification

2.1 IQSDA30

Inputs and Outputs	
Signal Inputs	
SDI Inputs	2 x
Input Cable Length	Up to 80 m Belden 1694A @ 3 Gbit/s Up to 180 m Belden 1694A @ 1.5 Gbit/s Up to 350 m Belden 1694A @ 270 Mbit/s
Signal Outputs	
SDI Outputs	x 3 per input
Controls	
Indicators	
Power	OK (Green)
CPU	OK (Green flashing)
Input 1	OK (Green), Bypass (Orange), Loss (Red)
Input 2	OK (Green), Bypass (Orange), Loss (Red)
RollCall Features	
Input 1 (2) Rate Select	Auto, 3G, 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
Roll Track Outputs	Unused Input 1 (2) Present Input 1 (2) Rate Unknown Input 1 (2) Error 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 SDI, SMPTE 424M 1.5 Gbit/s HD-SDI, SMPTE 292M 270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI
Connector/Format	BNC/ 75 Ohm panel jack on standard Snell connector panel
Return Loss	>-15 dB (270 Mbit/s, 1.5 Gbit/s) >-10 dB (3 Gbit/s)
Output Jitter	SD-SDI 0.2 UI (10 Hz) / 0.2 UI (1 kHz) 3G/HD-SDI 1.0 UI (10 Hz) / 0.2 UI (100 kHz)
Power Consumption	
Module Power Consumption	3 W max (A Frames) 4 W max with relay rear (A Frames) 3 PR (B Frames) 3 PR with relay rear (B Frames)

2.2 IQSDA32

Inputs and Outputs	
Signal Inputs	
SDI Inputs	1 x
Input Cable Length	Up to 80 m Belden 1694A @ 3 Gbit/s Up to 180 m Belden 1694A @ 1.5 Gbit/s Up to 350 m Belden 1694A @ 270 Mbit/s
Signal Outputs	
SDI Outputs	x 7 (1, 3, 5, 7 DVB-ASI compatible)
Controls	
Indicators	
Power	OK (Green)
CPU	OK (Green flashing)
Input	OK (Green), Bypass (Orange), Loss (Red)
RollCall Features	
Input 1 (2) Rate Select	Auto, 3G, HD, SD, DVB-ASI
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
Roll Track Outputs	Unused Input Present Input Rate Unknown Input Error Input Loss Input 3G Input HD Input SD
Other Controls	
User Memories	Name, save, and recall 16 user memories

Specifications

Electrical	3 Gbit/s SDI, SMPTE 424M 1.5 Gbit/s HD-SDI, SMPTE 292M 270 Mbit/s SDI, SMPTE 259M-C / DVB-ASI
Connector/Format	BNC/ 75 Ohm panel jack on standard Snell connector panel
Return Loss	>-15 dB (270 Mbit/s, 1.5 Gbit/s) >-10 dB (3 Gbit/s)
Output Jitter	SD-SDI 0.2 UI (10 Hz) / 0.2 UI (1 kHz) 3G/HD-SDI 1.0 UI (10 Hz) / 0.2 UI (100 kHz)
Power Consumption	
Module Power Consumption	3 W max (A Frames) 3 PR (B Frames) 3.5 W max with Relay Rear

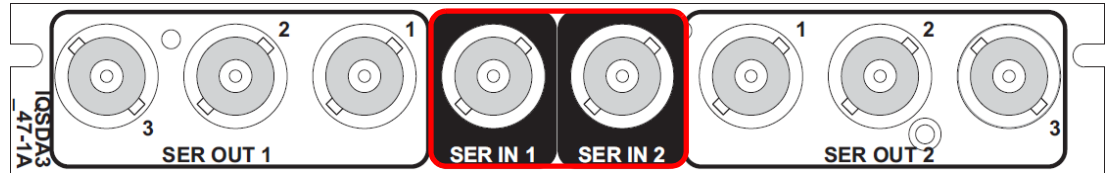
3. Connections

This section describes the physical input and output connections provided by the IQSDA30 and IQSDA32.

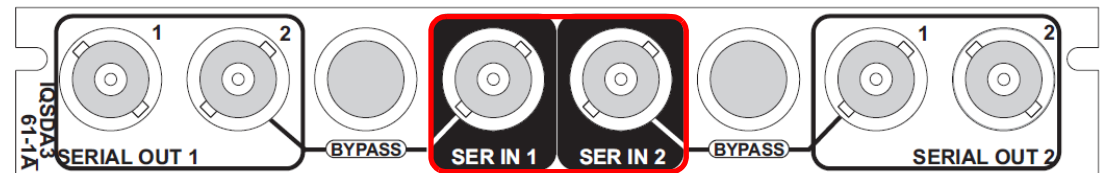
3.1 IQSDA30

3.1.1 Inputs

Serial digital input to the unit is made via 2 BNC connectors, which terminate in 75 Ohms.



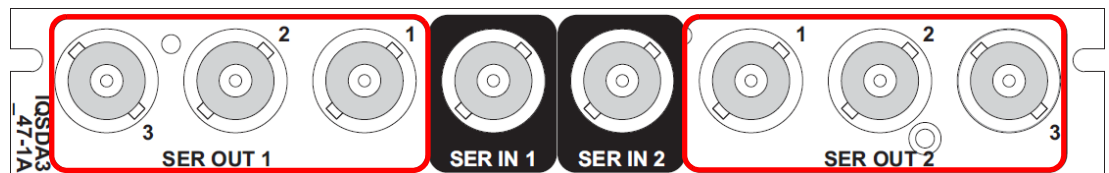
IQSDA3047-1A(B)/IQSDA3047-1A(B)3



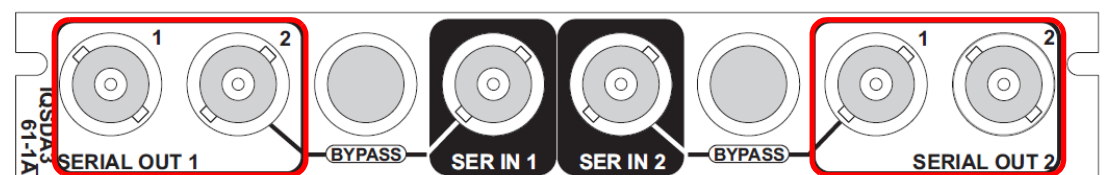
IQSDA3061-1A(B)3

3.1.2 Outputs

Serial digital output from the unit is made via 6 BNC connectors, 3 per input (4 on Relay Bypass version, 2 per input), which terminate in 75 Ohms. Outputs 1 and 3 are DVB-ASI compatible (Serial Out 1, output 1 and Serial Out 2, output 2 on Relay Bypass Version).



IQSDA3047-1A(B)/IQSDA3047-1A(B)3

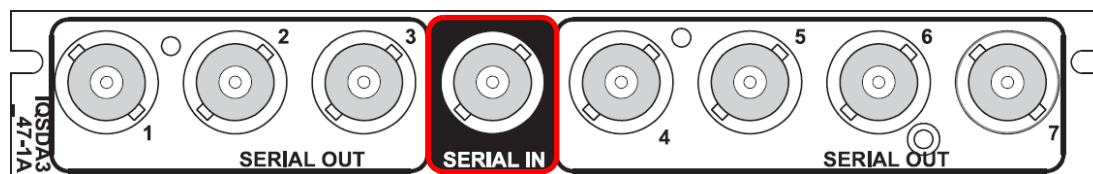


IQSDA3061-1A(B)3

3.2 IQSDA32

3.2.1 Inputs

Serial digital input to the unit is made via a single BNC connector, which terminate in 75 Ohms.



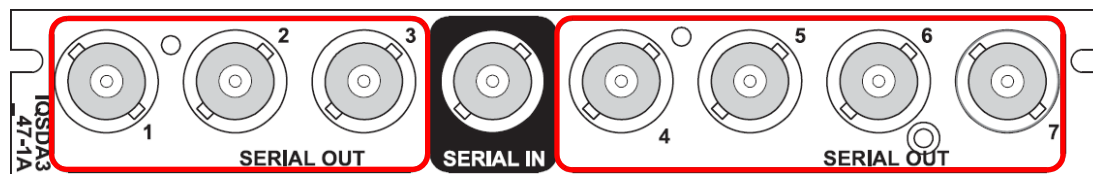
IQSDA3247-1A(B)/IQSDA3247-1A(B)3



IQSDA3261-1A(B)/IQSDA3261-1A(B)3

3.2.2 Outputs

Serial digital output from the unit is made via 7 BNC connectors (6 on Relay Bypass version), which terminate in 75 Ohms. Outputs 1, 3, 5, and 7 are DVB-ASI compatible (1, 4 and 6 on Relay Bypass Version).



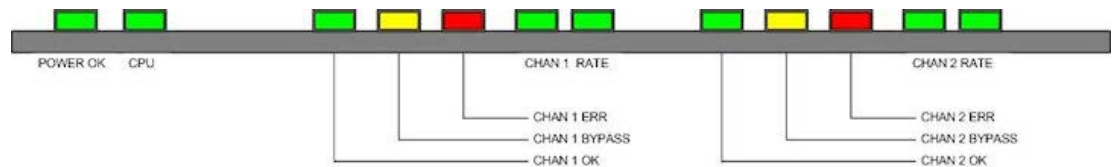
IQSDA3247-1A(B)/IQSDA3247-1A(B)3



IQSDA3261-1A(B)/IQSDA3261-1A(B)3

4. Card Edge LEDs

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



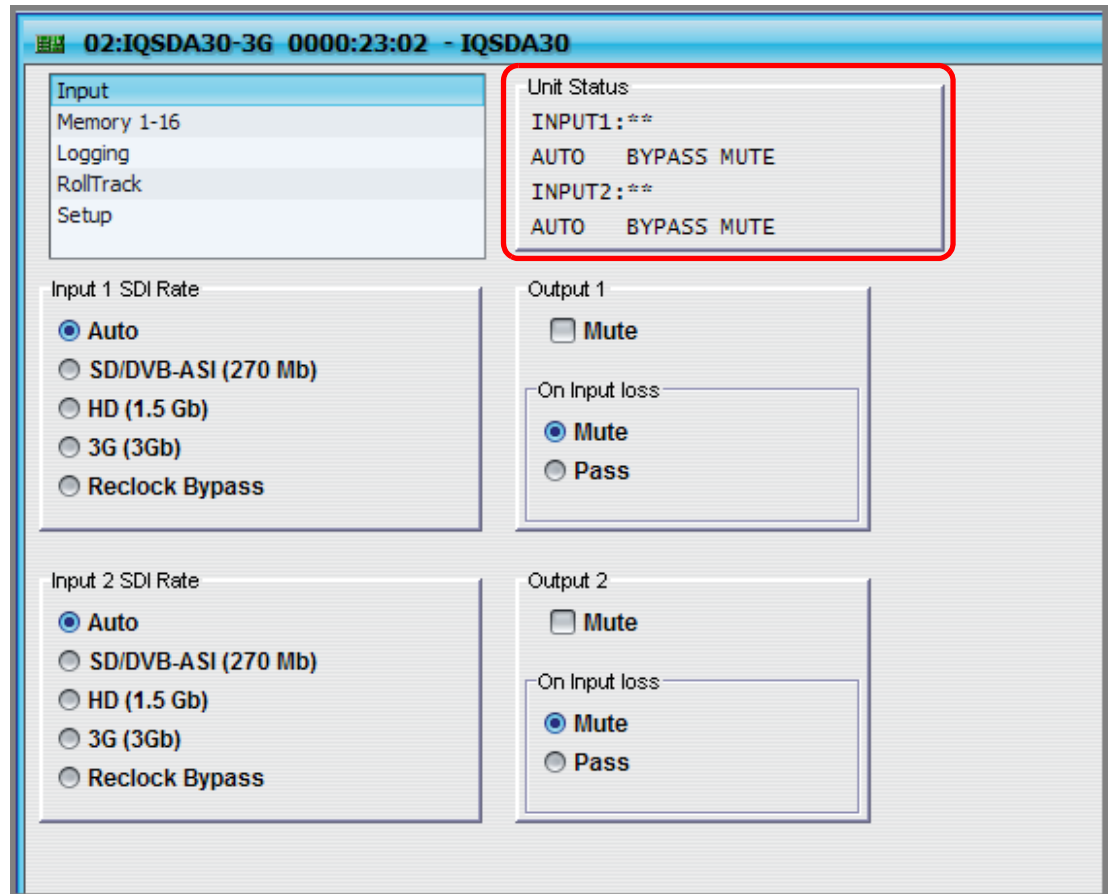
Note: Channel 2 LEDs on IQSDA30 only.

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

5. Controlling the IQSDA30/32 from the RollCall Control Panel

5.1 Unit Status

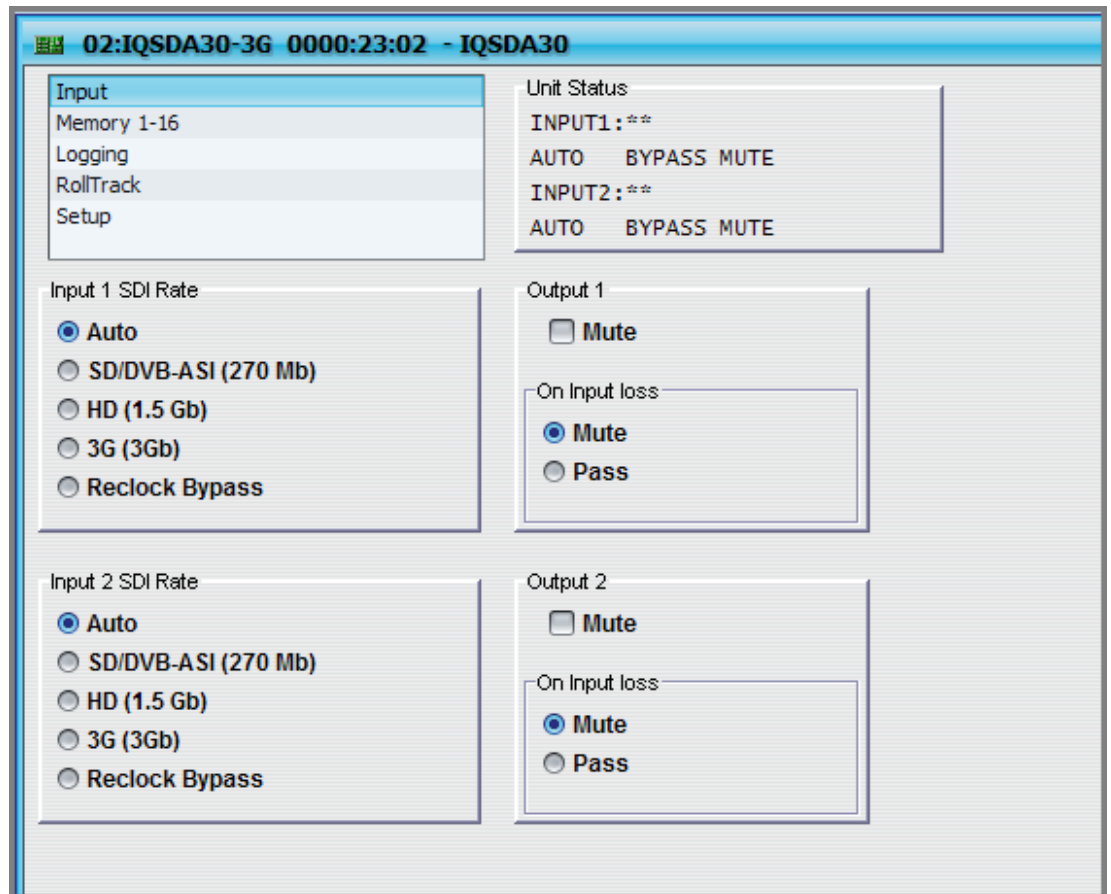
Information about the status of the unit is displayed in the Unit Status section on each RollCall Control Panel screen.



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.

5.2 Input

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



5.2.1 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.

When selected, the **On Input Loss** controls are greyed out and are inactive. If any other standard is applied to the unit the output will be muted.

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

When selected, the **On Input Loss** controls are greyed out and are inactive. If any other standard is applied to the unit the output will be muted.

- **3G (3 Gb):** When selected, the unit will reclock only 3G (3 Gb) signals.

When selected, the **On Input Loss** controls are greyed out and are inactive. If any other standard is applied to the unit the output will be muted.

- **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.

5.2.2 Output 1

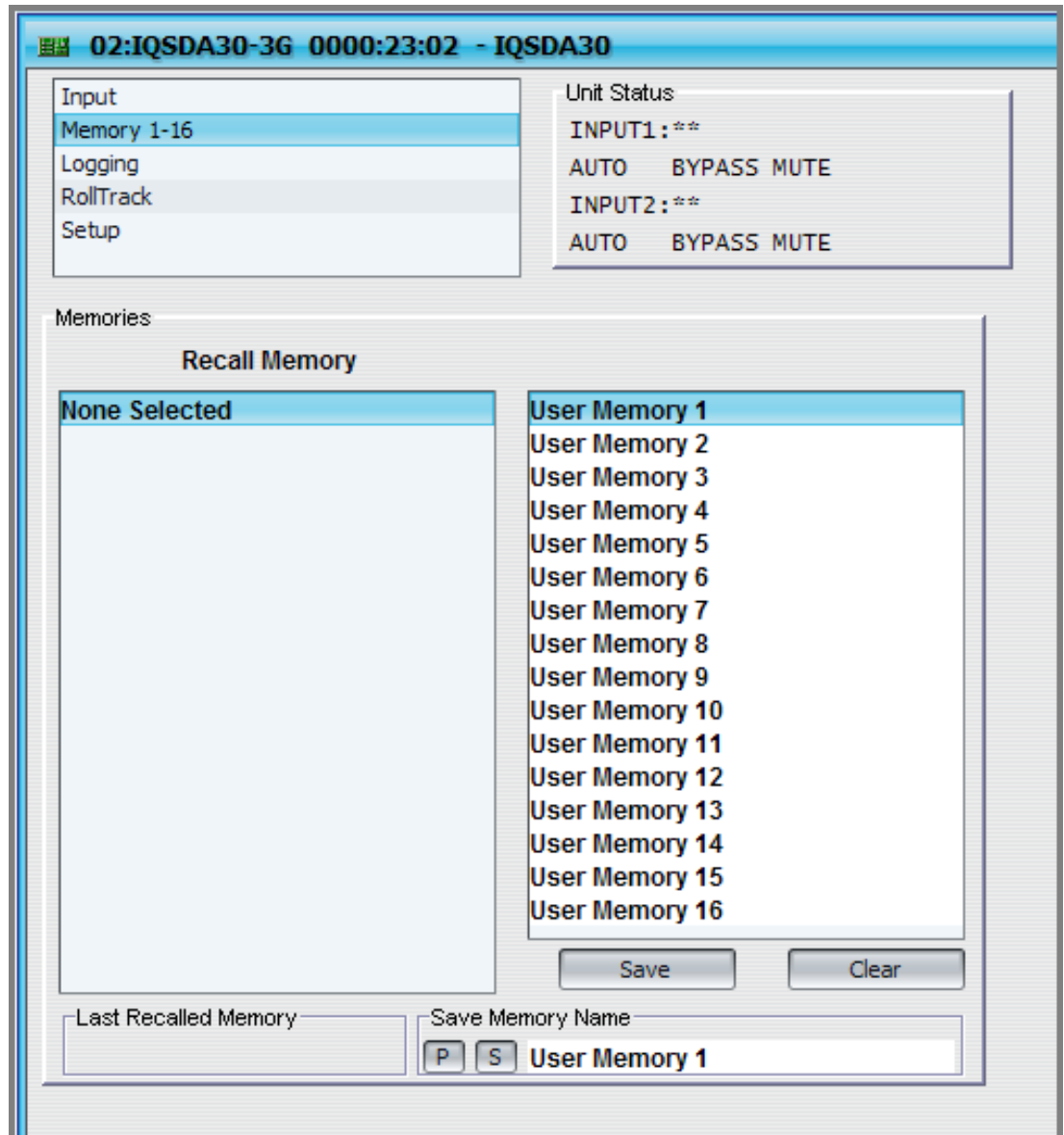
- **Mute:** When selected, this option applies a mute on Output 1.
- **On Input loss / Mute:** When selected, if the Input signal is lost, the output signal will be muted.
- **On Input loss / Pass:** When selected, if the input signal is lost, it will be passed unchanged.

5.2.3 Input 2 SDI Rate and Output 2 (IQSDA30 only)

These options are the same as the Input 1 SDI Rate and Output 1 options but are applied to Input 2 and Output 2.

5.3 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 **S**. To return the memory to its default value, click the preset button (**P**).

Use the **Recall Memory** function to recall the settings saved in a memory location. **Last Recalled Memory** displays the most recently recalled memory. If a control is changed after a has been recalled **Last Recalled Memory** will display an asterisk behind the memory name.

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.

5.4 Logging

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

The screenshot shows the following configuration details:

Log Enable	Log Field	Log Value
<input type="checkbox"/>	SN=	S39039998
<input checked="" type="checkbox"/>	OS_VERSION=	V115 Release
<input checked="" type="checkbox"/>	BUILD_NUMBER=	0000300274
<input checked="" type="checkbox"/>	HARDWARE_VERSION=	RDGDR1B
<input checked="" type="checkbox"/>	UPTIME=	000:06:30:00
<input checked="" type="checkbox"/>	LICENSED_OPTIONS=	SDHD;3G

Log Enable	Log Field	Log Value
<input checked="" type="checkbox"/>	INPUT_1_IDENT=	SERIAL IN 1
<input checked="" type="checkbox"/>	INPUT_1_NAME=	INPUT 1 SERIAL IN.
<input checked="" type="checkbox"/>	INPUT_1_TYPE=	HD/SD/3G SDI
<input checked="" type="checkbox"/>	INPUT_1_STATE=	OK
<input checked="" type="checkbox"/>	INPUT_1_SDIRATE=	1.5Gb/s

Log Enable	Log Field	Log Value
<input checked="" type="checkbox"/>	INPUT_2_IDENT=	SERIAL IN 2
<input checked="" type="checkbox"/>	INPUT_2_NAME=	INPUT 2 SERIAL IN
<input checked="" type="checkbox"/>	INPUT_2_TYPE=	HD/SD/3G SDI
<input checked="" type="checkbox"/>	INPUT_2_STATE=	OK
<input checked="" type="checkbox"/>	INPUT_2_SDIRATE=	270Mb/s

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.

5.4.1 Log Field Descriptions

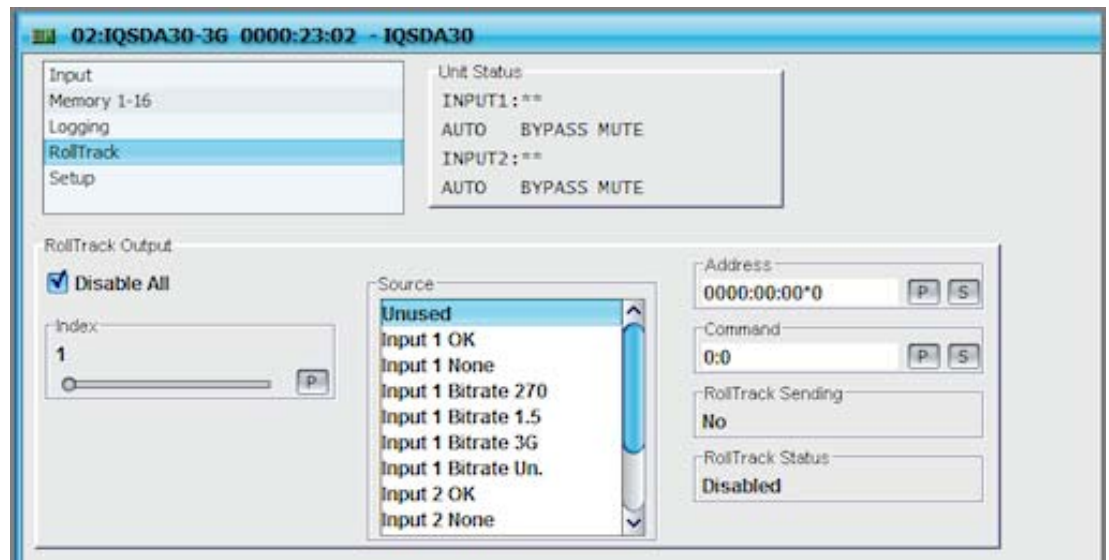
Log Field	Description
SN=	Displays the module serial number, which consists of an S followed by eight digits.
OS_VERSION=	Displays the operating system name and version.
BUILD_NUMBER=	Displays the build number.
HARDWARE_VERSION=	Displays the hardware version number.
UPTIME=	Displays the time since the last restart in the format ddd:hh:mm:ss.
LICENSED_OPTIONS=	Displays the licensed features installed in the module.
INPUT_N_IDENT=	Displays the identifier of the serial data input.
INPUT_N_NAME=	Displays the name of the serial data input.
INPUT_N_TYPE=	This displays the type of input as specified by the unit's configuration. Valid values are HD /SD SDI.
INPUT_N_STATE=	Displays the current input state. Valid values are: <ul style="list-style-type: none">• OK• WARN• FAIL
INPUT_N_SDRATE=	Displays the current bit rate for the serial data input.

5.5 RollTrack

The **RollTrack** screen allows information to be sent, via the RollCall™ network, to other compatible units connected 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.



5.5.1 Disable All

When checked, all RollTrack items are disabled.

5.5.2 RollTrack Index

The slider enables up to 16 RollTrack outputs to be set up. Dragging the slider selects the RollTrack Index number. Clicking the **P** button selects the default preset value.

5.5.3 RollTrack Source

This slider enables the source of information that triggers the transmission of data to be selected. Dragging the slider selects the RollTrack source, displayed below the slider. Clicking the **P** button selects the default preset value. If no source is selected, **Unused** is displayed.

Unused	No RollTracks sent.
Input N OK	Valid serial data input received.
Input N None	No serial data input received.
Input N Bitrate 270	Received bitrate is 270 Mbit/s.
Input Bitrate 1.5	Received bitrate is 1.5 Gbit/s.
Input N Bitrate 3G	Received bitrate is 3 Gbit/s.
Input N Bitrate Un.	Received bitrate is unknown.
Using Config 1	Configuration 1 is selected.
Using Config 2	Configuration 2 is selected.
Using Restart Conf	Restart configuration (3) is selected.

5.5.4 RollTrack Address

This item enables the address of the selected destination unit to be set.

The address may be changed by typing the new destination in the text area and then selecting the **S** button to save the selection. Clicking the **P** button returns to the default preset destination.

The RollTrack address consists of four sets of numbers, for example, **0000:10:01*99**.

- The first set (**0000**) is the network segment code number.
- The second set (**10**) is the number identifying the (enclosure/mainframe) unit.
- The third set (**01**) is the slot number in the unit
- The fourth set (**99**) is a user-settable number that is a unique identification number for the destination unit in a multi-unit system. This ensures that only the correct unit will respond to the command. If left at 00 an incorrectly fitted unit may respond inappropriately.

5.5.5 RollTrack Command

This item enables a command to be sent to the selected destination unit.

The command may be changed by typing a code in the text area and then selecting the **S** button to save the selection. Clicking the **P** button returns to the default preset command.

The RollTrack command consists of two sets of numbers, for example: **84:156**.

- The first number (**84**) is the actual RollTrack command.
- The second number (**156**) is the value sent with the RollTrack command.

5.5.6 RollTrack Sending

A message is displayed here when the unit is actively sending a RollTrack command. Possible RollTrack Sending messages are:

No	The message is not being sent.
Yes	The message is being sent.

5.5.7 RollTrack Status

A message is displayed here to indicate the status of the currently selected RollTrack index. Possible RollTrack Status messages are:

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

5.6 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.

5.6.1 Product Information

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

- **Product:** The name of the module.
- **Software Version:** The currently installed software version number.
- **Serial No.:** The module serial number.
- **Build:** The factory build number. This number identifies all parameters of the module.
- **KOS:** The operating system version number.
- **PCB:** The Printed Circuit Board revision number.
- **Licensed Options:** The installed licensed options.

5.6.2 Default Settings

The **Default Settings** button enables module settings to be reset to their factory defaults, leaving user memories intact.

5.6.3 Factory Defaults

The **Factory Defaults** button enables the module settings to be reset to their factory defaults.

Note: Resetting the module to its factory defaults also clears all the saved memory settings.

5.6.4 Restart

The **Restart** button enables the module to be rebooted, simulating a power-up/power-down cycle.

5.6.5 Input 1/2 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 **S**. To return the name to its factory default, click **P**.

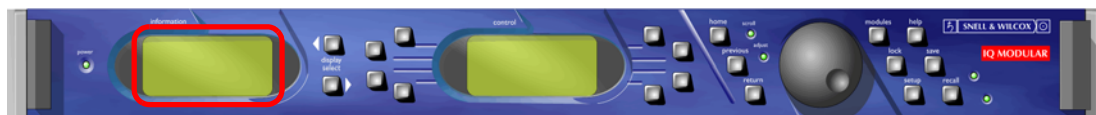
6. Controlling the IQSDA30/32 from an Active Front Panel

The modules 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.

6.1 Information Window

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



6.2 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.