

IQASI25

ASI Transport Stream Switch and Distribution Amplifier

ASI transport stream distribution amplifier with added emergency switchover support on TS Sync and PAT loss.

The IQASI25 from Grass Valley is a cost-effective ASI-switched distribution amplifier that continuously monitors two MPEG-2 DVB ASI transport streams (TS) and routes the preferred input to the five identical outputs. It monitors various critical parameters within the transport stream and their status will effect switching and alarms. It is compliant to the ETSI TR 101290 specification for Digital Video Broadcasting and supports both DVB and ATSC transport streams in Packet, Byte & Burst modes. Automatic operation is configurable by the user and the switch may also be externally controlled via the RollCall control and monitoring system or external GPIs.

Why should you choose this module?

- Cost-effective ASI-switched distribution amplifier able to automatically switch on critical error detection
- Flexible automatic or manual control for application-specific scenarios
- Full RollCall compatibility allows easy integration with Grass Valley or third-party network management systems, providing an all-inclusive monitoring and control solution

KEY FEATURES

- Monitors two ASI inputs for loss of carrier signal, loss of transport stream sync and loss of PAT with automatic input switching on error
- Designed to minimize switching and prevent unnecessary disruption of the transport stream
- Remains on an input until that input fails. If the alternate input has also failed, no switch occurs
- If both inputs return to a good state, the switch remains static on the selected input
- Manual switch to force the module to Input 1 or 2
- Two configurable GPIO ports (two in or two out or one of each)
- LED indicators to show if input 1 is absent, input 2 is absent and if outputs are derived from input 1 or input 2
- RollCall control and monitoring compatible

SPECIFICATIONS

Inputs and Outputs

Signal Inputs

ASI 1: ASI (270 Mb/s)
 ASI 2: ASI (270 Mb/s)
 Standards: DVB-ASI, EN50083-9
 Electrical: Transformer coupled 75R 800 mVp-p
 Input cable length: 100m (Image 1000HD)

Signal Outputs

Serial data: 5 ASI (270 Mb/s)

Control Interface

GPI: 2 (shared connector)
 Connector/format: Standard Grass Valley screw terminal
 GPI: Opto input 2.2 k Ω to +5V, (1.6 mA to ground)
 GPO: Relay rated 1A @ 30V DC switching to ground

Indicators

Power: OK (Green)
 CPU: OK (Green flashing)
 Input Status:
 OK (Green)
 Fail (Red)
 Auto: Green Lit = selected
 Output source 1: Yellow Lit = selected
 Output source 2: Yellow Lit = selected

RollCall Features

Status: Input and output alarm statuses
 Input:
 Input select: Auto, forced our GPI based
 GPIO: GPIO configuration
 User memories: 16 user configurable

Logging:

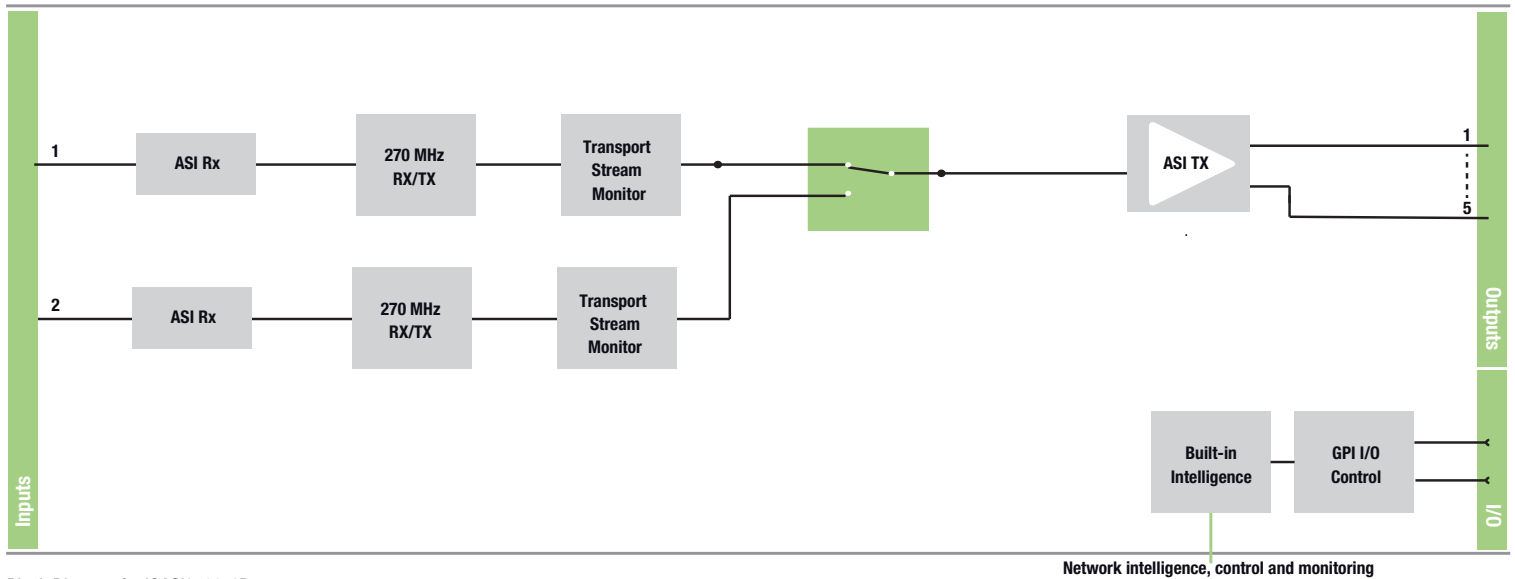
Input Status
 Input Alarms
 Output Status
 Misc
 RollTrack Controls: On/off, Index, Source, Address, Command, Status, Sending
 Setup: Versions, reset defaults, restart

General Specifications

Electrical: ASI transport stream
 Connector/format:
 BNC
 Standard Grass Valley screw terminal

Power Consumption

Module power consumption:
 4.5W max (A frames)
 4.5 PR (B frames)



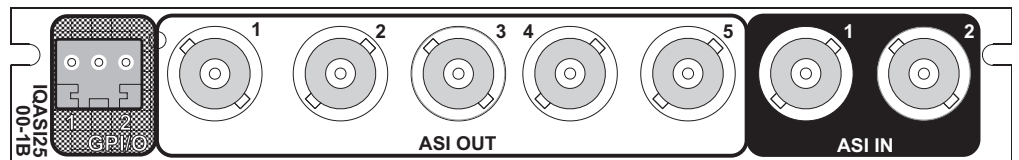
Block Diagram for IQASI2500-1B

ORDERING

IQASI2500-1B

ASI Transport Stream Switch & Distribution Amplifier. 2 ASI inputs, 5 ASI outputs, 2 GPI/Os.

For more details on enclosure types please refer to the IQ Modular Enclosures datasheet.



GVB-2-0838A-EN-DS



WWW.GRASSVALLEY.COM

Join the Conversation at **GrassValleyLive** on Facebook, Twitter, YouTube and **Grass Valley - A Belden Brand** on LinkedIn.



www.grassvalley.com/blog

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents.

Belden®, Belden Sending All The Right Signals®, the Belden logo, Grass Valley®, GV® and the Grass Valley logo are trademarks or registered trademarks of Belden Inc. or its affiliated companies in the United States and other jurisdictions. Grass Valley products listed above are trademarks or registered trademarks of Belden Inc., GVBB Holdings S.A.R.L. or Grass Valley Canada. Belden Inc., GVBB Holdings S.A.R.L., Grass Valley Canada and other parties may also have trademark rights in other terms used herein.

Copyright © 2019 Grass Valley Canada. All rights reserved. Specifications subject to change without notice.