

IQASI82

Dual ASI Transport Stream Monitor and Switch

An advanced ASI transport stream analyzer with built-in emergency switching support based on user-defined criticality of alarms.

The IQASI82 from Grass Valley monitors two ASI streams simultaneously for errors, automatically switching from main and backup inputs depending on error criteria. Alarm management flexibility is provided by user-defined criticality of alarms — from transport stream loss to PID monitoring and basic ETSI TR 101290 alarms.

External GPI I/O, RS-232 and relay ports can also control functionality, allowing upstream triggering and or automated control via a third-party system.

The IQASI82 can be used in conjunction with remote network management systems for advanced alarm monitoring and control.

Why should you choose this module?

- Each ASI transport stream is independently monitored with MPEG-2, DVB and ATSC standards supported
- Near-seamless switching minimizes disruption to the output stream by maintaining transport stream synchronization when switching between sources
- Programmable TR 101290 monitoring to match each transmission system specification
- 12 configurable GPI ports (4 inputs, 8 outputs), 2 relays and RS-232 control provide flexible external interfacing options
- Full GV Orbit compatibility provides an all-inclusive remote configuration, control and monitoring solution
- Comprehensive SNMP support allows easy integration with third-party Network Management Systems

KEY FEATURES

- Simultaneously monitors two MPEG-2 DVB ASI Transport Streams (TS)
- Compliant with ETSI TR101290 specification and ATSC TS streams packet, burst and byte modes
- Multiple switching methods, including near-seamless (between co-timed identical streams) and non-seamless switching, manual or automatic
- Transport stream monitoring and user selectable alarms, including:
 - Catastrophic failures such as no transport stream, loss of synchronization or low signal level
 - User-defined maximum and minimum data rates for each transport stream
 - Monitoring PIDs from a customer-specified list up to a maximum of 64 (32 per input)
- Relay bypass for signal path protection
- GV Orbit 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

Signal Outputs

Serial data: 4 ASI (270 Mb/s)

Control Interface

GPI: 4
 Electrical: Opto-isolated with an internal 5V pull-up through 470R, active low 8 mA
 Connector/format: Standard Grass Valley screw terminal
 GPO: 8
 Electrical: Darlington driver with 0V common, max sink current 500 mA switching up to 50V
 Connector/format: Standard Grass Valley screw terminal

Indicators

Power: OK (Green)
 CPU: OK (Green flashing)
 Input Status:
 OK (Green)
 Fail (Red)
 Remote: Green Lit = selected
 Local: Red Lit = selected
 Output source: Yellow Lit = selected

Remote Control Functions

Status: Input and output alarm statuses
 Primary: Config ASI switch configuration
 PID List: PID management
 Alarm outputs: Enable/disable
 User memories: None

Logging:

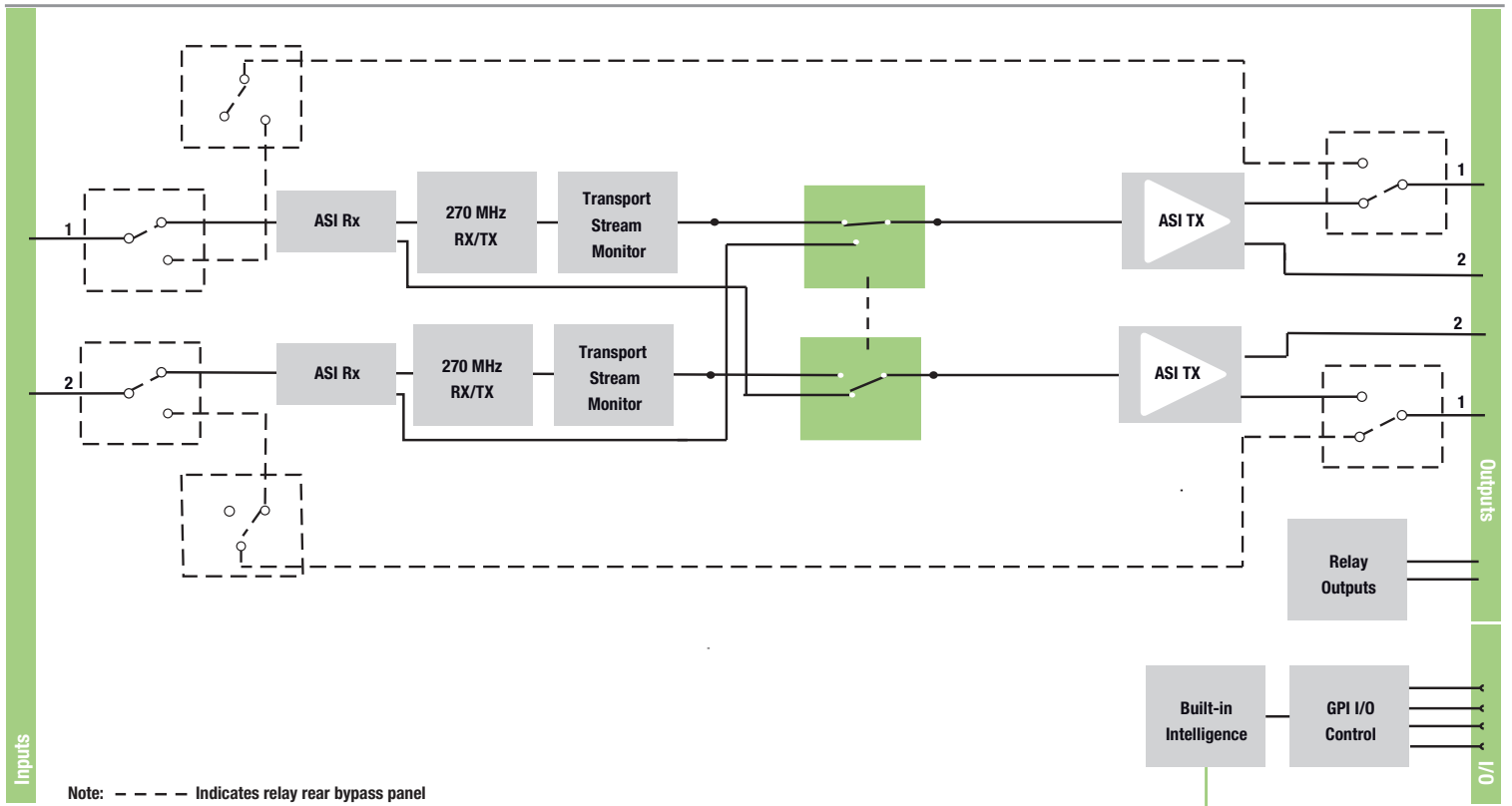
Input Status
 Input Alarms
 Output Alarms
 Output Status
 Misc
 RollTrack Controls: On/off, Index, Source, Address, Command, Status, Sending
 Setup: Versions, reset defaults, restart

General Specifications

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

Power Consumption

Module power consumption:
 6.5W max (A frames)
 6.5 PR (B frames)



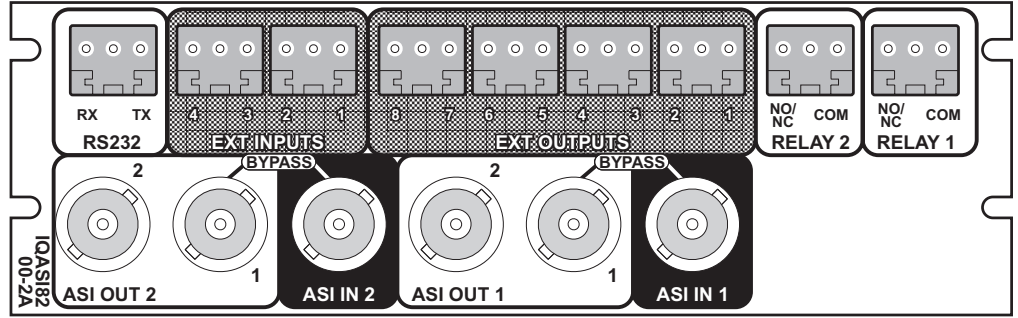
Block Diagram for IQASI8200-2A

ORDERING

IQASI8200-2A, IQASI8200-2B

ASI Transport Stream Monitor and Switch. 2 ASI inputs, 4 ASI outputs, 12 GPIs, RS-232 port, and 2 relay ports.

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



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