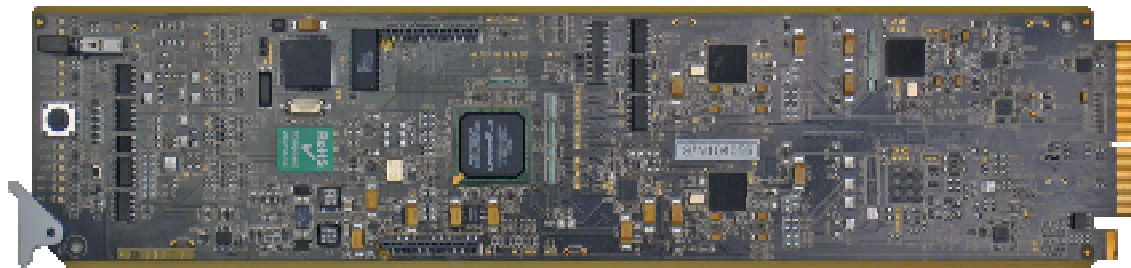


- ✓ MPEG-2 Transport Stream
- ✓ Triggers
- ✓ Detection
- ✓ SCTE-35
- ✓ openGear

TV Data Solutions



TSD-100 Transport Stream Detector

Norpak Corporation

The TSD-100 analyzes an MPEG-2 Transport Stream to identify occurrences of selected components. For example, when SCTE-35 triggers are carried in operator specified PIDs, the TSD-100 can simply use the presence of these PIDs or use the splice commands contained within, to assert a GPIO output to alert an operator or downstream equipment to the occurrence of the SCTE-35 trigger.

The TSD-100 provides a number of innovative tools to simplify your workflow. For example:

- In “SCTE-35 trigger” mode, GPIO outputs are controlled by splice-insert commands.
- In “PID detected” mode, each GPIO output is triggered by the arrival of a transport stream packet with the selected PID, and is then negated after a user-specified timeout.
- Each GPIO output has an associated user-specified timeout. This lets you control the duration of the output pulse to meet your system requirements.
- Each GPIO output can indicate either the presence or the absence of the specified PID. For example, it can be asserted for one minute whenever the PID occurs, or it can indicate that the PID has not occurred in the last hour.
- As a member of the openGear family, the TSD-100 shares a common control interface, known as DashBoard, with a broad array of other products.

To make configuration truly easy, the TSD-100 also provides a Heads-Up Display on separate monitoring outputs; both analog video and SDI are available. When activated, card status and parameters can be viewed and adjusted using the card-mounted finger joystick and an easy to use menu system.

The TSD-100 is housed in the openGear DFR-8300 series frames. It is compatible with both 10-slot and future 20-slot frames.

Detect selected components of an MPEG-2 Transport Stream

- *Digital Program Insertion Triggers (notification of splice points) (SCTE-35)*
- *User-defined Data / Triggers*

The TSD-100 facilitates:

- *Confidence checking of Digital Insertion Triggers prior to distribution*
- *Notification to monitoring systems*
- *Triggering of downstream equipment*

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corporation

TSD-100

Transport Stream Detector

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Key Features

The following features make the TSD-100 the solution of choice for monitoring selected PIDs in MPEG Transport Streams:

- ASI input on a 75-ohm BNC jack located on the rear module
- Up to 8 PIDs can be monitored, corresponding to the maximum of 8 PIDs that can be assigned to SCTE-35 triggers
- Both GUI and card-edge user interfaces for setup and monitoring
- Non-volatile settings allow "set-and-forget" operation
- Individual GPIOs can be set to indicate either presence or absence of selected services
- Fits openGear DFR-8300 series frames, allowing up to 10 Transport Streams and 80 PIDs to be monitored in a single 10-slot frame
- Cards are hot-pluggable for ease of configuration and maintenance

Specifications

Video Standards

- DVB-ASI
(EN 50083-9)
- SCTE-35

Connectors

Connectors are located on rear panel I/O module (sold separately).

Rear module p/n ONG-MDL-R02:

- Video In & Out: BNC, 75 ohm, 292M, 259M, & ASI compliant
- On-screen Display Out (for local setup): BNC, 75 ohm, analog and 259M
- GPIO connector: two 8-pin terminal blocks, used as isolated outputs

Switches

- Bypass push button
- Joystick controller

Indicators

- Power
- Video
- Bypass
- Status

Environment

- Operating Temp: 32 - 104° F
(0 - 40° C)
- Storage Temp: -40 - 149° F
(-40 - 65° C)
- Humidity: 10 - 90%
(non-condensing)

Regulatory Approvals

- FCC Part 15
- CE
- RoHS

Ordering Information

ONG-TSD`-100	Transport Stream Detector Card
ONG-MDL-R02	8 isolated GPIO outputs, 4 BNC Rear Panel
ONG-MDL-R01	8 logic level GPIOs, 6-BNC Rear Panel with video bypass (alternative to ONG-MDL-R02)
DFR-8310-N	Digital Products Frame and Power Supply with Cooling Fans and Network Card (2RU, holds 10 cards)

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