











3G-SDI Neo
Interface board

Real time. Long distance. High quality.

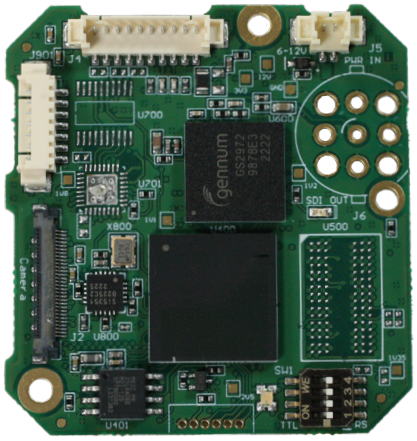
The 3G-SDI Neo converts the LVDS video signals from zoom block cameras to 3G/HD-SDI, delivering **real-time, high-definition & uncompressed video** with **ultra-low latency** (<1ms).

This compact module is designed for **seamless integration** into industrial imaging systems, medical applications, and real-time video monitoring platforms.

Compatible with Sony's and Tamron's zoom block camera range, including the latest Sony FCB-EV9520L & Tamron MP3010.

be **visionary**

3G-SDI Neo



KEY FEATURES

- Output 3G/HD SDI
- Uncompressed full HD video stream
- Video resolution up to 1080p60
- Automatic LVDS camera video format detection
- Communication : UART RS232 or TTL (selectable by DIP switch)
- Camera output video format configuration by DIP switches
- Setup and update via UART

FUNCTIONS	SPECIFICATIONS
Digital video output	3G/HD SDI - SMPTE 424 M, HD-SDI 292 M
Digital video output connector	BNC (default) or MCX or SMB
Camera control	VISCA commands via UART RS232 (default) or TTL
GPIOs	Camera commands
Power supply	7 to 12 VDC
Operating temperature range	0° to 60°C
Storage temperature range	-20°C to 60°C
Regulation	CE EMC compliant, PCB: UL 94 V0
Dimensions (mm)	48(H) x 45(W) x 13(D)
Weight	15g

Ordering information

PART NUMBER (P/N)	DESCRIPTION
TV10 0096	3G-SDI Neo interface board*
TV50 0020	**Mounting kit** - Includes: 30-way USL20-30SS-012-C cable assembly, 2-way cable for power supply, 10-way cable for RS232/UART TTL, 7-way cable for GPIOs, right-angle anodized aluminum bracket, screws & spacers
TV50 0021	**Cable kit** - Includes: 30-way USL20-30SS-012-C cable assembly, 2-way cable for power supply, 10-way 10-way cable for RS232/UART TTL
VOPTEM 02	MCX connector option
VOPTEM 03	SMB connector option
VOPTEM 04	Without connector
VOPTEM 05	TTL option

*The electronic board comes with a BNC connector by default and is natively configured with RS232

Need a custom version ?

We support **tailored solutions** based on your system's layout, connector positions, or special commands. Let's talk about your integration!

About i2S | Twiga

For over 45 years, i2S has been a leading expert in high-quality image capture and processing. In 2023, i2S expanded its expertise by acquiring Twiga, a global specialist in video acquisition, transmission and processing.

Today, i2S partners with customers on complex imaging projects, applying its knowledge across various fields, including industry, heritage digitization, underwater imaging, and health & wellness.