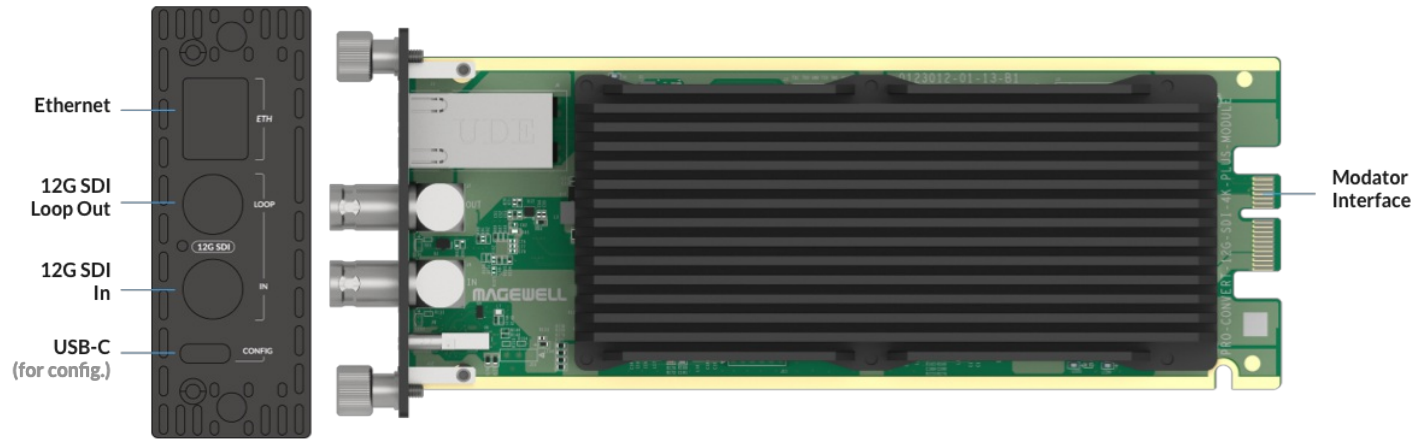


Pro Convert 12G SDI 4K Plus Module Technical Specifications

Converts a 12G-SDI input signal into NDI® High Bandwidth with loop-through

SKU: B40910000



Product Overview

Pro Convert 12G SDI 4K Plus Module is a hot-swappable module to be installed in the Magewell Modator chassis. It is capable of converting a 12G-SDI signal up to 4Kp60 into high-bandwidth NDI® stream, providing a higher-density product form factor and a scalable solution for IP-based production and distribution deployments.

Key Features

- Max input & loop through signal at 4096x2160 60fps
- 16-channel SDI embedded audio inputs
- Encode NDI® High Bandwidth real-time stream at up to 4096x2160 60fps 4:2:2 8-bit
- Send NDI® streams across network segments
- Remotely control PTZ cameras using protocols of Visca UDP via NDI®
- Supports NDI® 6.2
- Configure through the touch screen of Magewell Modator chassis, Web GUI or Control Hub

Technical Specifications

Revised on 03/30/2026

Interfaces

- 1* RJ45 1000Mbps Ethernet port
- 1* USB Type-C port for configuration
- 1* 12G SDI input port
- 1* 12G SDI loop port
- 1* Modator interface for connecting to Modator 2U (hot-swappable)

Input & Loop through Features

- Max video input & loop through: 4096x2160 60fps. Supported typical resolutions include:
 - 4096x2160p/3840x2160p/2048x1080p/1920x1080p 23.98/24/25/29.97/30/47.95/48/50/59.94/60
 - 2048x1080i/1920x1080i 47.95/48/50/59.94/60
 - 1280x720p 23.98/24/25/29.97/30/50/59.94/60
 - 720x576 50i (PAL SD)
 - 720x480 59.94i (NTSC SD)
- Supports RGB/RGBA/YUV/YUVA signals with 8/10/12-bit color depth
- Supports RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling
- Supports RGB, YUV BT.601/709/2020 video input

- 16-channel SDI embedded audio inputs
- SD/HD/3G/6G/12G-SDI BNC input & loop through
- Supports SD (ST 259)/HD (ST 292)/3Ga (ST 425)/3Gb (ST 425)/3Gb-DL (ST 425)/6G (ST 2081)/12G (ST 2082) SDI standards
- Receive 12G-SDI transmitted up to 35m (110ft), 6G-SDI 75m (248ft)

NDI® Encoding Features

- Encoding NDI High Bandwidth real-time stream at up to 4096x2160 60fps 4:2:2 8-bit
- Output the same resolution as input or any custom resolution. Typical outputs include:
 - 4096x2160p/3840x2160p/2048x1080p/1920x1080p 23.98/24/25/29.97/30/47.95/48/50/59.94/60
 - 2048x1080i/1920x1080i 25/29.97/30/47.95/48/50/59.94/60
 - 1280x720p 23.98/24/25/29.97/30/50/59.94/60
- Output frame rate same as the original, 1/2, 1/3 or 1/4 of input frame rate
- Encoding 16-channel NDI-embedded audio
- Supports NDI 6.2

Web UI

- Register with Magewell Control Hub for remote centralized management
- Supports configuring and managing via Web UI
- Provide comprehensive information regarding the device and signals in real-time
- Allow to configure how an input is processed and encoded, including deinterlacing, up/down scaling, frame rate, aspect ratio, as well as the network connection
- Supports updating firmware
- Supports USB NET
- Supports Microsoft Edge/Firefox/Chrome/Safari/Opera web browsers
- Provides HTTP APIs

PTZ Control

- Control PTZ cameras using protocols of Visca UDP via NDI

LED Indicators

- Input signal:
 - On: locked
 - Off: unlocked

Physical Specifications

- Form factor: 184.4mm (L) x 30.0mm (W) x 81.5mm (H)
- Weight: ≈311g

Power Consumption

- Max power consumption: 7.76W

Working Environment

- Operating temperature: 0 to 50 deg C
- Storage temperature: -20 to 70 deg C
- Relative humidity: 5% to 90% non-condensing

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