

MAGEWELL

Modator 2U Technical Specifications

Copyright (c) 2011–2024 [Nanjing Magewell Electronics Co., Ltd.](http://www.magewell.com) All rights reserved.

Specifications are based on current hardware, firmware and software revisions, and are subject to change without notice.

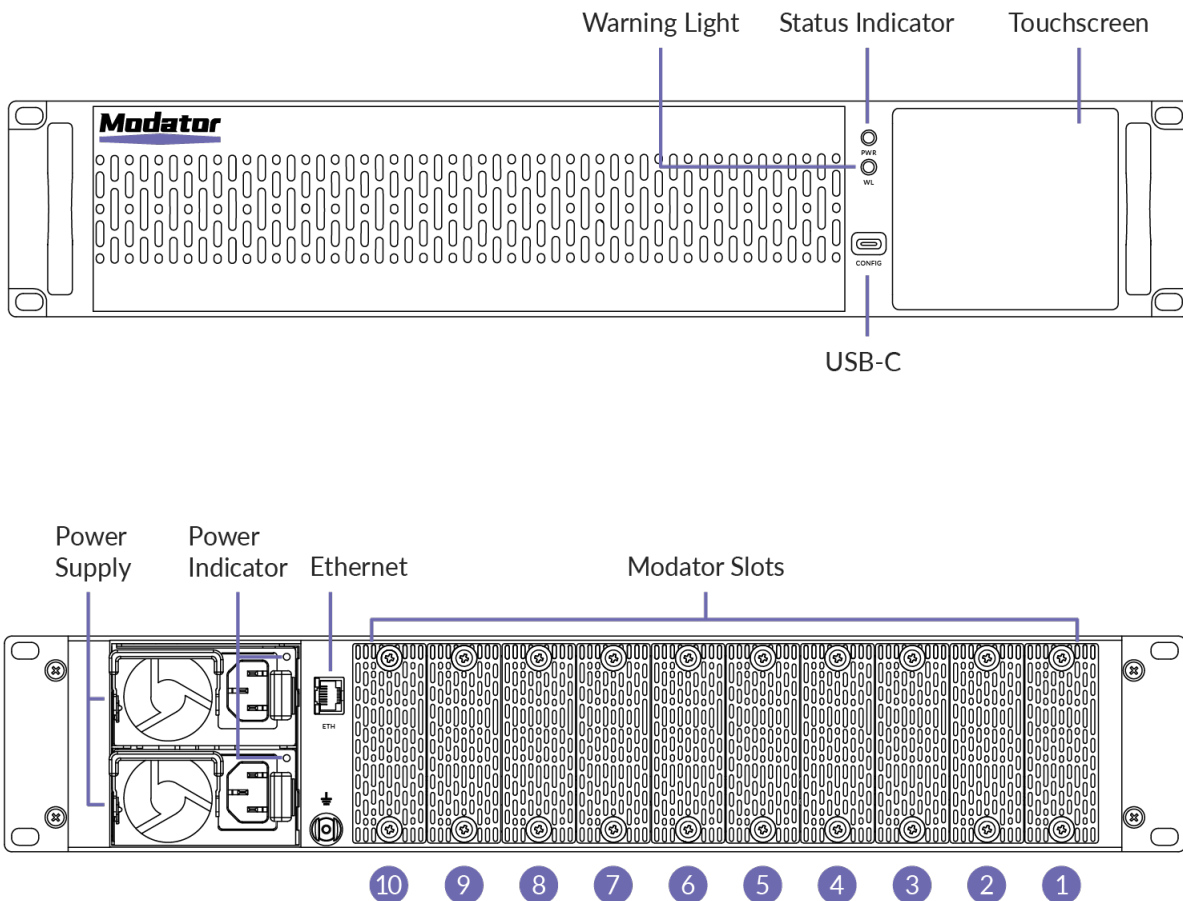
HDMI, the HDMI logo and High-Definition Multimedia interface are trademarks or registered trademarks of HDMI Licensing LLC. NDI[®] is trademark or registered trademark of Vizrt Group.

Revised on 11/04/2024

Description

Magewell's Modator 2U is a high-density, flexible, and expandable modular rack server designed for Magewell's encoder and decoder modules. The 2U high rack server meets the requirements of standard rack deployments and supports up to 10 hot-swappable Modator modules. The LED screen indicates the operating status of each module and the chassis. Empowered with dual power supply and built-in centralized heat dissipation design for stable 24/7 operation, the server is suitable for various scenarios requiring high stability.

When installed in the server via Modator slots, each module can work independently to convert high-quality audio and video signals to and from NDI[®] and other IP streams.



Interfaces

- 10* Modator slots supporting hot swap of Magewell modules
- 1* RJ45 1000Mbps Ethernet port for configuration
- 1* USB Type-C port for configuration

Power and Power Consumption

- Hot-swappable dual power supply modules for safety and redundancy
- AC: 100–240V, 7–3.5A, 60/50Hz
- Maximum power consumption of the chassis: 200W
- Maximum power consumption of each slot: 20W
- Standby power consumption: 11W (Touchscreen off), 11.9W (Touchscreen on)
- No-load power consumption: 17W (Touchscreen off), 17.9W (Touchscreen on)

Status Indication

- Status indicator:
 - Blue: Working
 - Flashing Blue: Standby
- Warning light:
 - Red: Error
 - Off: Normal
- Power indicator:
 - Green: Output on and OK
 - Flashing Green: Standby or Cold Redundancy
 - Red: Error or fault
- Buzzer:
 - Beeping: Error
 - Off: Normal

Touchscreen

- Dimension: 91mm x 81mm

Control

Touchscreen

- Power on/off the device
- Display the device information
- Display information about the connection state of each slot and information of inserted modules
- Display and edit Ethernet information
- Display logs to trace important events
- Display notifications of errors

Web UI

- Provides comprehensive information regarding the device
- Provides basic information and working status regarding connected modules
- Supports managing and configuring the device, such as changing device name, enabling beeper, updating firmware, setting network, etc.
- Supports IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Provides HTTP APIs

Supported Modules

- Pro Convert for NDI to HDMI module
- Pro Convert for NDI to AIO module
- Pro Convert HDMI 4K Plus module
- Pro Convert HDMI Plus module

Physical Specifications

- Form factor: 482mm (L) x 275mm (W) x 88 mm (H)
- Weight: ≈5.6kg (with 10 blank panels)

Working Environment

- Operating temperature: –10 to 45 deg C
- Storage temperature: –20 to 70 deg C

- Relative humidity: 5% to 90% non-condensing