



CRADLE SERIES RF02 LC

Your Flexible Modular Media Center

2RU Design

16 Media Card Slots

Optional Main Controller

Cradle Series **RF02-LC** is a 2RU modular media center designed for professional IP-based media processing. With up to 16 card modules, it supports encoding, decoding, NDI I/O, multiview, media gateway, and compute functions in a single chassis.

Media cards and the optional main controller connect directly to the external network. When centralized management is required, the controller brings installed cards into KiloLink Server without taking up a media card slot. RF02-LC can be configured and expanded as project needs change.





Up to 16 Modular Cards for Mix-and-Match Deployment

With 16 independently configurable card slots, RF02-LC supports flexible combinations of encoding, decoding, NDI I/O, multiview, media gateway, and compute functions. You can mix and match different cards in one chassis to build the media processing system your project needs.



External Switching with Existing Network Infrastructure

RF02-LC works with existing switching infrastructure, allowing users to keep their network design and configure VLANs, bandwidth, security, and redundancy as needed. Network capacity can also be scaled separately from the chassis, reducing upgrade costs and unnecessary hardware replacement.



Flexible Management for Different System Sizes

For smaller setups, RF02-LC can be managed card by card without a main controller. As more cards are added, an optional controller enables centralized configuration, monitoring, and upgrades through KiloLink Server, while keeping all 16 media card slots available for processing.



System Status and Control at a Glance

The built-in 1.9-inch LCD displays key system information, including chassis status, modular card IP addresses, and temperature, while 4 physical buttons provide quick access to essential operations.



Built for Reliable Operation. Designed for Easy

Dual hot-swappable power supplies provide redundancy if one module fails, while two removable fan modules maintain chassis cooling and can be removed for easier cleaning and card access.

Optional Service Cards



FN-50/FN-60 4K Bidirectional Conversion Cards

FN-50/FN-60 are all-in-one 4K bidirectional encoding and decoding cards. Supporting H.264, H.265, and NDI SpeedHQ, they work with NDI High Bandwidth, NDI HX2/HX3, SRT, RTMP, HLS, TS over UDP, RTP, and RTSP. Built for professional broadcast, the FN-50/FN-60 provide exceptional 4:2:2 10-bit HDR image quality. Powered by the latest NDI 6.2, the cards deliver improved performance and workflow efficiency.



Bidirectional Converter: Encode or decode 12G-SDI/4K HDMI over NDI, SRT, RTMP and more, with automatic stream detection and loop-out monitoring.

NDI

Built-in NDI Bridge: Enable seamless NDI video transmission across different networks or geographic locations for remote production.



4K Tier-1 Image Quality: Deliver 4:2:2 10-bit HDR 4K video, providing exceptional color accuracy, rich tonal range, and vivid visuals.

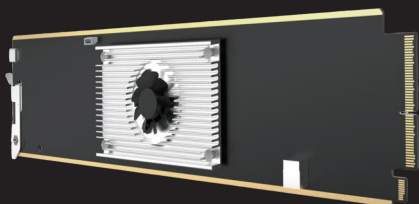
NAS

Professional Tools: Tally light, PTZ control, KIS Pro intercom, NAS remote recording, etc.

FMG-400

All-in-one Media Gateway Card

Media Gateway Card (FMG-400)



FMG-400 is an all-in-one media gateway card integrating protocol conversion, transcoding, and stream distribution. It supports transcoding of H.264, H.265, and SpeedHQ, with streaming across HDMI High Bandwidth, NDI HX2/HX3, SRT, RTMP, RTSP, RTP, UDP, and HLS. Works with RF02 bonding, FMG-400 can receive streams from P-Series 4G/5G wireless bonding encoders, connecting remote sources directly into IP workflows for live production, conferencing, and more.



Powerful Transcoding Capabilities: Handles up to 1×4Kp30 or 3×1080p60 simultaneous streams, flexible H.264/H.265/SpeedHQ conversion, and adjustable resolution, frame rate, and bitrate. Also supports audio transcoding for AAC, MP3, and PCM.



Versatile Streaming Capabilities: Supports push/pull operations, unicast/multicast delivery, and multi-protocol/multi-bitrate output with minimal setup.



Intuitive Source-to-Output Switching: Features a visual crosspoint grid for instant input-to-output switching, with automatic discovery of RF02 sources and destinations for streamlined setup and signal routing.

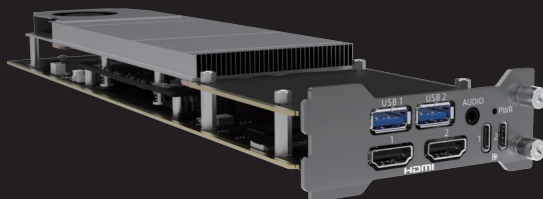


Bonded Stream Conversion: Works with RF02's bonding reception to convert streams from up to 8 P-Series 4G/5G encoders into NDI HX, SRT, RTMP, and more, enabling seamless remote production with broadcast-grade reliability.

FXC-A8800

High Performance Compute Card

FXC-A8800 Compute Card is a high-performance, industrial-grade computing module for RF02, integrating CPU, GPU, memory, storage, network, and I/O in a compact, hot-swappable card. Up to four cards in a 2U system deliver computing power equivalent to four industrial PCs with centralized power, cooling, and unified management. It supports video processing, audio mixing, switching, recording, monitoring, and third-party software for software-based AV workflows.



Powerful Industrial-Grade Processing GPU & GPU



Seamless Integration with RF02 for Unified Management & Monitoring



Flexible OS Deployment - Windows® or Linux®

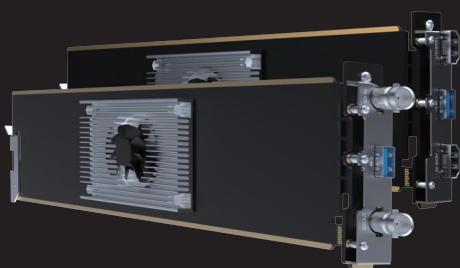


Freely Run Kiloview or Other Third-party Software

FN-7/FN-8

HD Bidirectional Conversion Cards

FN-7/FN-8 are the easiest and most cost-effective way to get access to the fabulous NDI world, offering low latency and high image quality. These bi-directional conversion cards feature 3G-SDI/HDMI I/O ports for all NDI formats (including NDI High-Bandwidth and NDI HX2/HX3) and also support SRT, RTMP, and RTSP protocols. They can process NDI sources from any camera, software, or device.



1080P

Resolution Up to 1080p60



3G-SDI/HDMI <=> IP Conversion



NDI HB, NDI HX2, NDI HX3, SRT, RTMP, RTSP, HLS, RTP, and TS-UDP

FD-360

4K Multi-functional Decoding Card

FD-360 multi-functional decoding card is an all-in-one video processing card that supports various network video stream formats, including NDI HB, NDI HX2/HX3, SRT, RTMP, UDP, RTP, and RTSP, ensuring stable audio/video synchronization via SDI and HDMI. It supports decoding up to 12-CH 1080P60 video streams and features hardware-based multiview monitoring for real-time preview and switching.

1080P

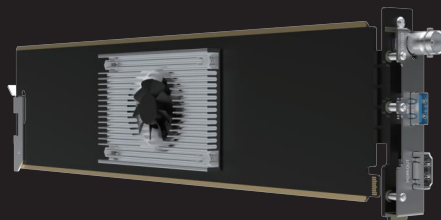
Decode Up to 12-CH 1080p60 Video Streams



NDI HB, NDI HX2, NDI HX3, SRT, RTMP, UDP, RTP, and RTSP

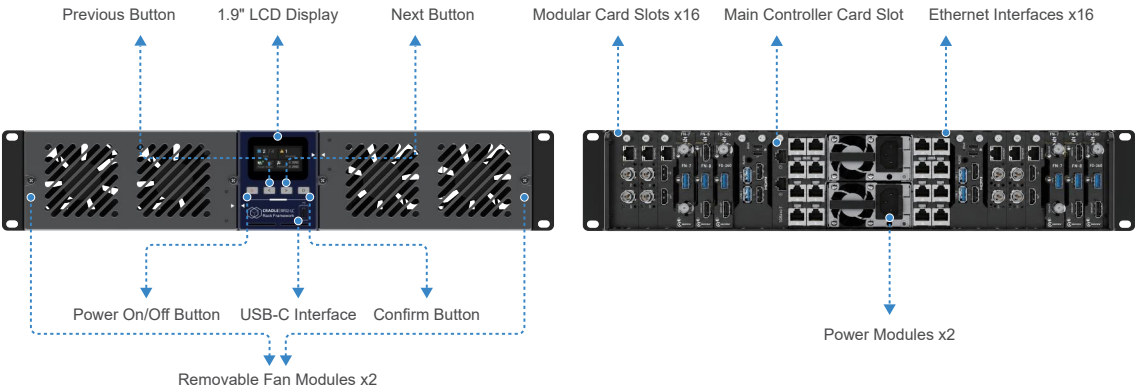


Flexible Layout, Hardware Multiview

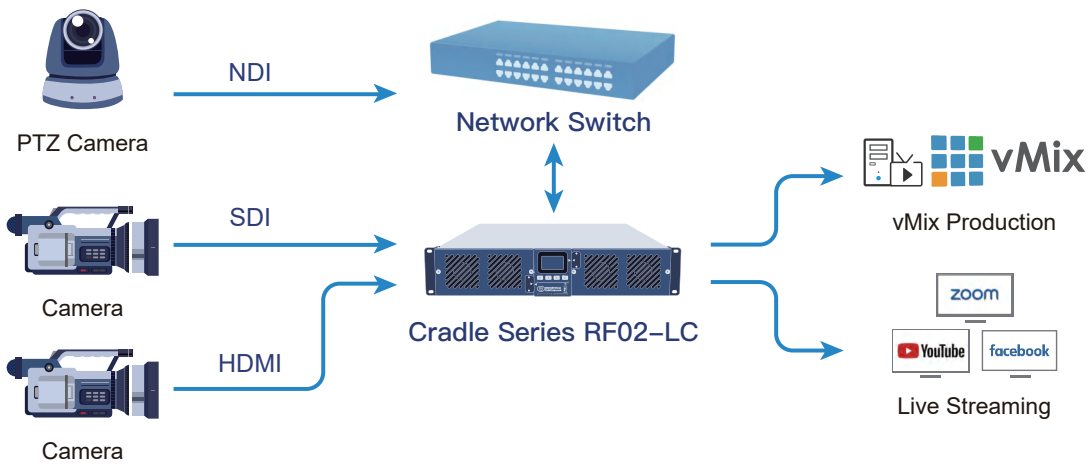


Stay tuned for more powerful module cards...

Interfaces



Applications



Broadcast Facility



Sports Production



Corporate & Campus



Central Equipment Room

RF02-LC Specifications

Chassis	2RU Rackmount
Modular Card Slots	16
Main Controller Card	Optional; Dedicated Slot
Centralized Management	KiloLink Server
Local Display	1.9" LCD
Compatible Cards	FN50/60, FN7/8, FD360, FMG-400, FXC-A8800
Network Interfaces	16 × Ethernet
Network Switching	External Switch Required
Card Networking	1 × Ethernet per Card
Cooling	2 × Removable Fan Modules / 4 Fans
Power Supply	2 × 800W Hot-Swappable Redundant PSUs
Operating Temperature	-15°C to 40°C
Storage Temperature	-20°C to 50°C
Dimensions	483.00 × 443.50 × 88.00 mm
Weight	4.68 kg



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Reminder: All photoes are for reference only, and specifications are subject to the physical product.