



CRADLE SERIES RF02

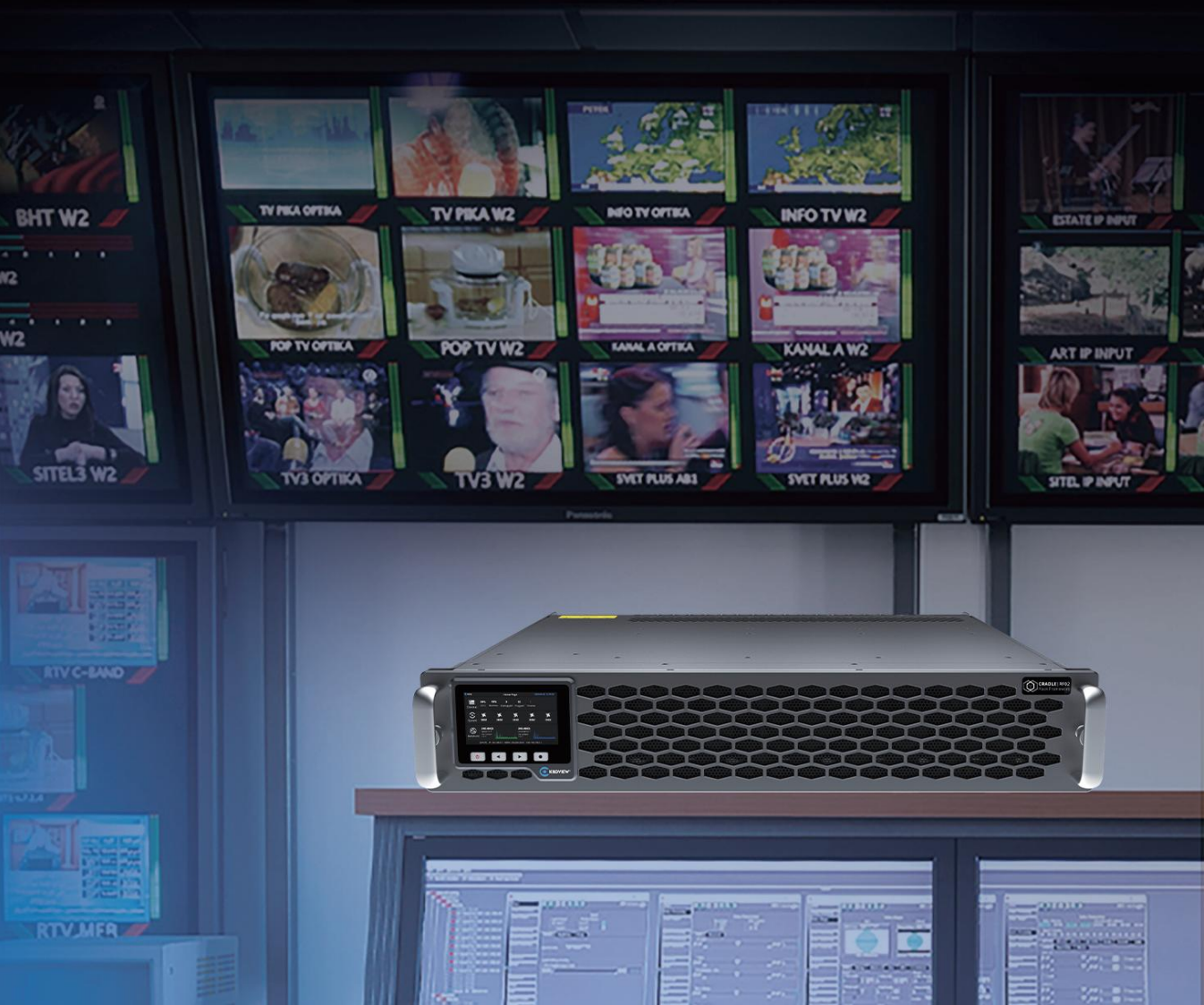
UNIFY YOUR WORKFLOW, AMPLIFY YOUR POTENTIAL

High-Density Modular Design

18 Multi-Conversion Cards Supported

Integrated Network Switch

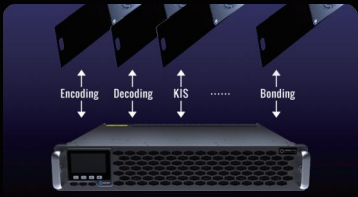
Centralized Management with KiloLink Server Pro



The **Cradle Series RF02**, the pinnacle of Kiloview's Cradle Series, is your ultimate unified media center. This advanced rack framework is designed to transform your AV-over-IP workflows by combining unparalleled flexibility, power, and space efficiency within a 2RU structure. Tailored for high-density multi-service environments, the RF02 delivers a seamless integration experience that enhances your media operations with robust performance, centralized management, and comprehensive modularity.

Integrated Network Switch

Save Big – Cut the Cost of a Switch!



Unified Integration: Built-in 1G/2.5G network switch module connects all internal service cards, including encoding/ decoding/ media gateway and bonding services.



Effortless Transmission: Three 10Gbps SFP+ fiber Ethernet interfaces and one 10Gbps RJ45 Ethernet, ensuring effortless handling of high-bandwidth NDI.



Efficient Data Flow: RF02 streamlines the data flow within the platform, eliminating the need for external network switches. It saves setup complexity and costs.

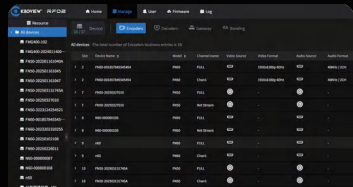
Centralized Management with KiloLink Server Pro



Powerful Controller: With the Built-in ARM64 main controller running KiloLink Server Pro, the RF02 enables centralized management and upgrades of all service cards from a single interface.

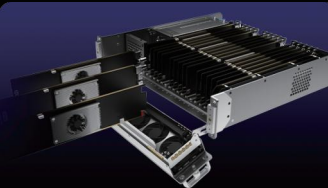


On-Premise Bonding Service: With support from the FMG-400 Media Gateway Card, the RF02 seamlessly receives remote video streams, functioning as a bonding server for Kiloview P Series bonding encoders.

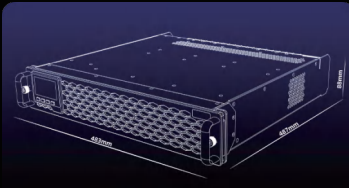


Streamlined Operations: Automatically identifies and categorizes media streams, enabling real-time status monitoring and flexible adjustments.

High-Density Modular Design



18 Service Cards: With a compact 2RU chassis that supports up to 18 service cards, covering encoding, decoding, media gateway, and bonding services. Each service card operates independently, and a single card failure does not affect other cards.



Modular Control&Switch Design: RF02 features a replaceable main controller and network switch module, enabling independent upgrades of core components without replacing the entire unit—significantly reducing maintenance costs and extending system lifespan.



Stable and Reliable: Equipped with dual hot-swappable 500W redundant power supplies and five adjustable-speed fans for active cooling, ensuring stable operation.

Your Ultimate Media Center



User-Friendly Interface: A 3.0-inch LCD panel with intuitive buttons for quick status monitoring and configuration coupled with a web-based interface for remote management.



Modular flexibility: Enabling free combination of different service cards and compatibility across diverse application scenarios.



Professional Integration Capabilities: Extensive API support allows for deeper integration, automation, and customization, making the system adaptable to specific operational needs.



Broadcast & Television



Education & E-learning

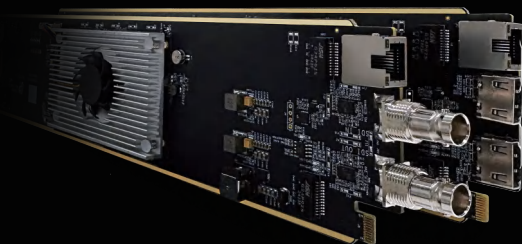


Conference & Large-scale Display



Sports & Live Streaming

Optional Service Cards



FN-50/FN-60 Encoding & Decoding Card

The FN-50/FN-60 is a high-performance 4K bi-directional encoding and decoding integrated card. It supports a range of codecs including H.264, H.265, and NDI SpeedHQ, and is compatible with streaming protocols such as NDI HB, NDI HX2, NDI HX3, SRT, RTMP, and RTSP. With robust 4K video input and output performance, it easily adapts to a wide variety of application scenarios.



Bidirectional Converter: Offers bidirectional conversion from H.264/H.265/NDI SpeedHQ to 12G-SDI/4K HDMI and Supports NDI and net stream protocols.

NDI HX

Exclusive NDI 6 Features: 4:2:2 10-bit HDR color quality (under NDI HX2 format) & NDI Bridge integration for remote transmission.



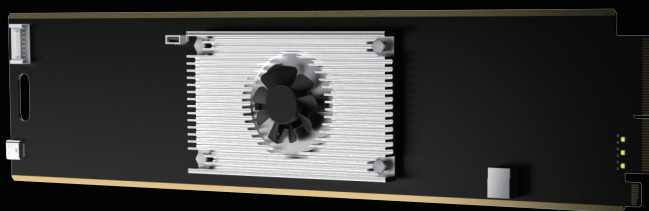
Seamless integration: Working perfectly with RF02, managed via KiloLink Server Pro.

NAS

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

FMG-400 Media Gateway Card

FMG-400 supports seamless transcoding between H.264/H.265 and SpeedHQ, as well as multi-protocol cross-conversion in Gateway mode (NDI/NDI HX2/HX3/SRT/RTMP/RTSP/RTP/UDP/HLS). It also offers a Bonding Mode, functioning as a bonding server for Kiloview P Series bonding encoders, enabling secure and reliable bonding reception and media stream distribution.



Powerful Transcoding capabilities: Equipped with a high-performance chipset, it can handle 1 channel of 4KP60* or 4 channels of 1080P60 video transcoding between H.264/H.265 and SpeedHQ for NDI High Bandwidth (*transcoding from H.26x to SpeedHQ supports HD only). It also supports comprehensive audio conversion between AAC/G.711/PCM.



Versatile Protocol Conversion: Supports cross conversion between protocols including NDI, NDI HX2, SRT, RTMP, RTSP, RTP, UDP, and HLS.



On-premise Bonding Receiver: Enables seamless reception of remote video streams, acting as a receiving server for Kiloview P Series 4G/5G bonding encoders.

FXC-A8600 Compute Card

FXC-A8600 Compute Card is a high-performance computing module specifically designed for Cradle Series RF02. Featuring a high-density integrated design and powered by AMD's industrial-grade processor, it supports flexible deployment of Windows or Linux operating systems. Users can freely deploy broadcasting, production, or streaming software without requiring additional PCs, positioning the RF02 as the ultimate all-in-one AV-over-IP solution across industries.



Flexible OS Deployment - Windows® or Linux®



Freely Run Kiloview or Other Third-party Software

FN-7/FN-8 All-In-One Conversion Card

FN-7 and 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.



3G-SDI/HDMI<=>IP Conversion

1080P Resolution Up to 1080p60



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

FD-360 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...

Cradle Series RF02 Tech Specs

Main Controller Module

Processor	8-core ARM64 high-performance processor (Cortex A73@1.8GHz)
Memory	12GB DDR4
Storage	16GB EMMC
Operating System /Software	Linux 5.10/KiloLink Server RF version
Management and Control	Web/HTTP API

Network Switch Module

Service Card Connection	18 x 1Gbps/2.5Gbps Adaptive Ethernet (Copper) *Note: Slot1/2 can support up to 10Gbps, others support 1Gbps/2.5Gbps
Control Module Connection	2 x 5Gbps (Copper)
External Connection	3 x 10Gbps SFP+ Optical Ports (IEEE 802.3ae) 1 x 10Gbps RJ45 Ethernet port
Type	Three-layer managment switch /VLAN support (802.1Q/QinQ)
Switching Capacity	120Gbps

Overall Chassis

Display	3-inch LCD color display (non-touchable)
Buttons	4 (Power/Flip left/Flip right/Select)
Service Card Expansion	18x (MAX)/ Rear plug-in card structure (Guide rail, 20 Pin gold finger connector) Max power 25W/ slot Support mixing and matching of multiple service cards such as encoding /decoding/media gateway/bonding
Dimension	483mm(D)x487mm(W) x88mm(H) Standard 2RU
Working Temperature	-10℃ to 50℃
Storage Temperature	-20℃ to 70℃
Heat Dissipation	Self-adjust heat dissipation / Auto-temp control
Power Supply	Dual hot-swappable modular power supplies with redundant backup (configurable to single power mode) Single module specifications: AC 100~240V, 7A(Max), 60/50Hz, 500W Max
Power Consumption	No load : 30W Full load: 480W (Depending on the actual power consumption of service cards)



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