CLOUD MEETS ON-PREM

Highly adaptable cloud-connected professional receiver

MK.IO Beam for reception is engineered to meet the evolving demands of processing at the edge of your network, delivering high-quality video and audio decode with maximum efficiency. Its flexible architecture allows for seamless integration into existing workflows, providing a future-proof solution for content turnaround and distribution.

Tech specs

INPUT

Compressed input	IP inputs with IGMPv3-based redundancy, dual multicast redundancy, Pro-MPEG FEC, SRT. RTMP, MPEG-2 TS
Satellite	Demodulation: DVB-S, DVB-DSNG, DVB-S2, DVB-S2X

VIDEO DECODING

Video codecs	HEVC, H.264, MPEG-2, JPEG-XS
Chroma & bit depth	4:2:0, 4:2:2, 10-bit / 8-bit
Resolutions	480i (SD), up to 2160p (UHD)
Framerates	23.98, 24, 25, 29.97, 50, 59.94
Transcoding	MPEG-2/H.264/HEVC 4:2:0 to MPEG-2/H.264/HEVC 4:2:0 HD to SD downconversion

MONITORING & CONTROL

Cloud control	MK.IO
Interface	Web interface or REST API
Standard protocols	SNMP, NTP, IGMP

AUDIO DECODING

Audio codecs	MP1L2, AAC, AAC 5.1, HE-AAC v1 & v2, HE-AAC 5.1, Dolby Digital (AC3) 2.0 & 5.1, Dolby Digital Plus (E-AC-3) 2.0 & 5.1
Audio channels	Up to 8 stereo pairs per service
Passthrough	Linear PCM, Dolby E, DD, DD+

COMPRESSED OUTPUT

Format	SPTS, MPTS
Protocols	IP, UDP, RTP, RTMP,/RTMPS, ASI
Reliable transport	SRT caller/listener mode, RIST sender/listener mode, Zixi sender/receiver
Line rate	Up to 25GbE

UNCOMPRESSED OUTPUT

Baseband over IP	SMPTE ST 2110 with NMOS IS-04, 05 and PTP, SDI over IP (SMPTE ST 2022-6)
SDI	Up to 8xHD-SDI or 8x3G-SDI or 1x12G-SDI
Connector	BNC (F) 75 ohms

METADATA

Subtitles	Passthrough and translation for EIA 608/708 Closed Captions, SCTE-20, DVB Teletext, DVB Subtitles, SCTE-27

CONTENT REPLACEMENT

Ad insertion	Ingested MPEG-TS stored locally (max. 90m) Scheduled based on SCTE-35 Out-of-band fallback

CONTENT SECURITY

Decryption	BISS Mode 1 & E, BISS CA, Fixed key 128/256 AES
Common interface	All major CAMs supported

Commercial

MK.IO Beam is charged on-demand, per channel to align with your distribution consumption.

PERPETUAL

	Per channel rate	
Decode	$3,000	

PAY AS YOU GO

	Per channel rate	
Decode	$91 /month	$3.80 /hour

Pricing valid until 11/15/2025

Dimensioning

MK.IO Beam runs on certified COTS servers or on MediaKind-provided servers.

A-SERIES
Short form-factor, economical, low density

	Maximum capacity
HD AVC 4:2:0, 4:2:2	4 channels
HD HEVC 4:2:2	3 channels
HD JPEG-XS 4:2:2	4 channels
UHD HEVC 4:2:2	1 channel

E-SERIES
Standard form-factor, high density, high I/O

	Maximum capacity
HD AVC 4:2:0, 4:2:2	24 channels
HD HEVC 4:2:2	20 channels
HD JPEG-XS 4:2:2	20 channels
UHD HEVC 4:2:2	4 channels

Support

HARDWARE SUPPORT

Beam Hardware

For MK.IO Beam deployments on MK.IO Beam hardware.

✓ Hardware repair services

✓ MediaKind remote diagnostics

✓ Coverage includes MK.IO Beam hardware and I/O cards (not software)

SOFTWARE SUPPORT

Beam Base

✓ Access to ticketing system

Beam Enhanced

Everything in Beam Base and:

✓ Reactive support services with service-level agreement (SLA) and service credits

✓ Access to latest software releases

✓ Technical support ops available on chargeable basis

Beam Premier

Everything in Beam Enhanced and:

✓ Assigned customer success manager

✓ Dedicated Slack channel

✓ 5 hours per month of technical ops support

✓ Additional technical support ops hours at discounted rate

SLA response times

Severity	1 – Critical	2 – Major	3 – Minor	4 – Technical query
Response	30 min	1 hour	12 business hours	5 business days
Remedy	8 hours	16 business hours	Date shared within 10 business days	–
Restore	Date shared within 10 business days	Date shared within 10 business days	–	–

Cold spares

Customers are encouraged to purchase cold spares:

- Ideal for mission-critical environments
- MK.IO Beam software entitlements are easily transferred to spare units
- MK.IO Beam licences tied to MK.IO account for seamless reallocation