BOSTON STREAM RT APPLIANCES

With the rapid growth of live streaming dominating the global video market, the demand for low-latency applications is reshaping infrastructure costs and deployment strategies. The Boston Stream RT appliance, powered by the Alveo™ MA35D media accelerator, represents a new standard in interactive media solutions. It supports up to 256x 1080p60 streams with high channel density, delivering exceptional performance in a 2U solution. Optimized to minimize rack space, network bandwidth, and power consumption while maintaining superior video quality at ultra-low latency, the Boston Stream RT appliance helps infrastructure and content providers reduce CAPEX and OPEX, enabling cost-effective scalability with an unparalleled quality of experience.

KEY APPLICATIONS

LIVE EVENTS
- Live Events
- Remote Production

VIDEO COLLABORATION
- Video Conferencing Streaming
- E-Learning
- Telemedicine
- Customer Service

CLOUD GAMING
- Cloud Gaming Streaming
- ESports

INTERACTIVE MEDIA
- Watch Parties
- Social Streaming (Content Creators)
- Live Shopping and eCommerce
- Online Auctions
- Online Wagering

sales@boston.co.uk | www.boston.co.uk | (+44) 1727 876 100 | Boston Limited, Unit 5 Curo Park, Frogmore, St Albans, AL2 2DD, UK

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SYSTEM SPECIFICATIONS TABLE

MODEL	
Form Factor	2U
Processor	AMD EPYC™ 9555P 3.2 GHz 64 Core 256MB
Memory	192GB DDR5 6400 REG ECC DRAM
Drive Bays	24 Hot-swap 2.5" NVMe/SATA/SAS drive bays **
Accelerator	Up to 8x AMD Alveo MA35D
System Cooling	4x 8cm heavy duty fans with optimal fan speed control
Connectivity	Dual 25GbeSFP28 LAN
Power Supply	Dual 1200W Redundant Titanium Level (96%) power supplies
HW accelerated Encode/Decode Formats	AV1, H.265, H.264, JPEG, VP9* supported
HW accelerated Performance/ channel density	Up to 256x 1080p60fps or 64x 4Kp60 or 16x 8Kp30 transcodes Up to 512x 1080p60 H.264 or 128x 4Kp60 or 32x 8Kp30 decodes
Features:	Ultra Low Latency Transcode (4K at 8ms)
Flexible Rate Controls:	CBR, VBR, CVBR, and Constant QP
Video Processing	Hardware Accelerated ABR Scaler, 2D Composition and ML Engine
Comparable presents:	VQ Equivalent to x264 medium (AVC), x265 medium (HEVC) and x265 slow presets (AV1)

*   Decode only
** Depending on configuration

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