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DEDICATED DECODING CARD
Advanced Video Compression Technology

+ SCALABLE DECODING SOLUTION

Professional AV solutions require video to be received from a great many different sources and locations. The ability to receive and display video directly from online resources such as CCTV networks and remote desktop applications and combining them with local inputs has become an everyday part of a fully functional video wall display. EMS's XtremeIP-SQX PCIe plug in card is a powerful addition to systems that require a scalable hardware based decoding solution.

The XtremeIP-SQX includes a dedicated processor capable of decoding several IP streams simultaneously via the on-board ethernet ports. Fully PCIe compatible, multiple XtremeIP-SQX cards can be used in a single system to provide project scalability giving users more processing and more simultaneous decodes.

+ ¡ ! ' SQX TECHNOLOGIES

EMS's SQX technology is compatible with industry standards for video compression and streaming. The XtremeIP-SQX allows users to decode large numbers of high definition 1080p 60fps streams and multiple XtremeIP-SQX cards reside in a single system to provide

even more decoding capabilities. In addition, the XtremeIP-SQX can be placed in systems alongside graphics cards and video capture cards, such as the EMS Xtreme range, to provide a powerful addition to any control room environment.

EMS Imaging
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Board Format	PCIe x4 gen 2 plug-in card half length, full height
Connectors	2 x RJ45 Ethernet ports, 1 x DisplayPort output connector (reserved for future use)
Ethernet	Dual 1000 Base-T Ethernet ports DHCP or Static IP support IPv4 & IPv6
Streaming Protocols	HTTP, RTSP & MPEG2-TS support Multicast & Unicast support
Codec Support	H.264 (Mpeg4 Part 10 AVC), VC-1 (WMV) & MPEG2 Part 2 and MJPEG
Decode Density	Up to 3 x 4096x2160p @ 30fps or 6 x 1920x1080p @ 60fps / 12 @ 30fps 50+ D1 @ 30fps
De-interlacing	Supported
Stream Authentication	Basic & Digest Stream Authentication
Video Capture Memory	4GB
H.264 Profiles	Constrained Baseline Profile (CBP) / Main Profile (MP) / High Profile (HiP)
H.264 Levels	Level 3 / 3.1 / 4 / 4.1 / 4.2 / 5 / 5.1 / 5.2
Colour Format	NV12 4:2:0
DMA Engine	Direct DMA to physical or virtual memory buffers with full scatter-gather support DMA bandwidth: up to 1.3GB/s
Scaling	Hardware downscaling prior to DMA transfer. One to One (1:1) transfer for upscale after DMA
Carousel	IP Window carousel supported including the hardware based pre-buffering of IP decodes for smoother playback
OS Support	Windows 7 64 bit / Server 2012
Power requirements	Max current at +3.3 - 1.9A. Max current at +12V-1.9A Average power ≈ 14W
Operating Temp	0 to 35 deg C/ 32 to 95 deg F
Storage Temp	-20 to 70 deg C (-4 to 158 deg F)
Relative Humidity	5% to 90% non-condensing
Warranty	3 years

\+ **MODELS AVAILABLE**

Order Code: XtremeIP-SQX
Dedicated Decoding Card

All products are shipped with the latest software available, unless stated otherwise. Special requirements may be organised by contacting our Sales team.

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.

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