4K Sreaming and Media Input Module for CALICO | PRO

C7-PRO-MEDIA

Overview	
The 4K Streaming & Media input module for CALICO is a dual low latency H.264 & H.265 streaming decoder. It has IP source labeling and playback of video clips and stills from the on-board 128GB HDD.	

Features	
Combine streaming, file playback and still images for each video channel using playlists	Up to 20x playlists can be used per system
2 video channels 4K30 & HD or dual HD media playback	2160p (4096x2160) 30Hz
Decodes IP streams up to 4K	
IP Stream Labelling with on screen position adjustment	Separate, and in addition to CALICO labelling function
High resolution still image support	up to 4320p (7680x4320) stored, scaled to 2160p for playback
Hardware video engine handles smooth playback and scaling	
USB 3.0 port for file playback and content transfer to internal SSD	
128GB internal SSD storage for content	Video and still images
Two operational modes	2-channel 4K + 2K mode for file playback and streaming / 2-channel 4k + 4k synchronized playback mode (8x HD file playback)

Designed For	
C7-PRO CALICO models with input expansion slots	Input expansion module for CALICO models only

Max Installable	
C7-PRO-2200	2 module

Installation	
Field upgradable expansion module	Can be fitted in to slots 11 and 12
Caution*	This is not a hot-swappable item. To install or replace the unit has to be powered down and disconnected from the supply. Observe static safety precautions when handling the module. **

tvONE

Video Inputs

RJ45 (VoIP - video over IP)	1x (up to 40 decoders can be stored in the system, and two simultaneous streams can be viewed live)

IP Processing

Chroma sub-sampling	4:2:0 , 4:2:2
Video decoding	H.264 (Main, High), MPEG4, H.265/HEVC (Main) 8-bit
Bit rates	Up to 50Mbit H264, 25Mbps H265 per stream (dual stream)
Unicast streams	RTSP, RTMP, HTTP, MPEG-TS
Multicast streams	RTSP, MPEG-TS

Media Handling

External	1 x USB 3.0 Interface
Supported devices	Flash file systems FAT, FAT32, ext3, ext4, NTFS
Internal	High-speed storage 128GB
Remote	File transfer supported (FTP)
Maintenance / management	via CALICO studio

Supported Input Resolutions

480i (720x480)	59.94Hz
480p (640x480)	60, 72, 75, 85Hz
480p (720x480)	59.94Hz
487i (720x487)	59.94Hz
576i (720x576)	50Hz
576p (720x576)	50Hz
600p (800x600)	56, 60, 72, 75, 85Hz
720p (1280x720)	29.97, 30, 50, 59.94, 60Hz
720p (1920x720)	60Hz
768p (1024x768)	60, 70, 75, 85Hz
768p (1280x768)	60, 75, 85Hz
768p (1360x768)	60Hz
800p (1280x800)	60, 75, 85Hz
864p (1152x864)	70, 75Hz
900p (1400x900)	60Hz
900p (1440x900)	60, 75, 85Hz
900p (1600x900)	60Hz
960p (1280x960)	60, 85Hz
980p (980x980)	75Hz
1024p (1280x1024)	50, 60, 75, 85Hz
1050p (1400x1050)	50, 60, 75Hz
1050p (1680x1050)	60Hz
1080i (1920x1080)	47.96, 48, 50, 59.94, 60Hz
1080p (1920x1080)	23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
2160p (3840x2160)	23.98, 24, 25, 29.97, 30Hz
2160p (4096x2160)	23.98, 24, 25, 29.97, 30Hz

* This item is not hot-swappable
** Must be installed by a skilled professional

Media and Images

Interfaces	USB 3.0, Internal Storage, Network
Video codecs	H.264 (CBP, Main, High), H.265/HEVC (Main)
Video formats	mp4, mov, mkv, m4v, ts, mts, m2ts, mt2, mpeg2
Playback bit rates (streaming and media playback)	H264 total data handling 100Mbs, single channel up to 50Mbps @4K30 (2nd render 1080p (1920x1080) 30Hz) H265 total data handling 50Mbps, single channel up to 25Mbps @4K30 (2nd render 1080p (1920x1080) 30Hz)
Still image	JPEG, PNG, BMP

File Playback Resolutions Supported

Up to 2160p (3480x2160) 30Hz	Up to 1 (2nd render HD)
Up to 1080p (1920x1080) 60Hz	Up to 2
Up to 7680 x 4320 (8K) stored quality	Still Images / Playback at up to 2160p (4096x2160) 30Hz

Audio

Supported sampling rate	44.1 / 48kHz
Sample size	24 bits
Supported channels	One stereo pair per input

Control Interface

CALICO studio

Warranty

Limited warranty	5 years parts and labor**

Regulatory Compliance

System / modules	FCC, CE, RoHS, UL, UKCA

Environmental

Operating temperature	32° to 104°F (0° to +40°C)
Operating humidity	10% to 85%, Non-condensing
Storage temperature	14° to +158°F (-10° to +70°C)
Storage humidity	10% to 85%, Non-condensing

Power

Powered by the CALICO main unit