PRODUCT LIST – APRIL 2013

CINEMECCANICA

Cinecloud Integrated Media Block 2K

The Integrated Media Block (IMB) can be installed in a digital cinema series 2 projector, decoding and decrypting D-Cinema digital content for playback.

It is managed by one of Cinecloud server nodes which also streams all data from the server to the IMB itself; Cinecloud IMB is also capable of delivering High Frame Rate (HFR) video and, with a second projector, also to perform in a dual projector setup.

Designed to operate with all D-cinema series 2 projectors, it is compatible with Barco and NEC projectors and has been tested in Christie projectors.

Main Features:

- Gigabit Ethernet connection for content streaming
- JPEG2000 and MPEG-2 decoding
- 16 Audio Channels (through 2 x RJ45 connectors)
- 7 GPO - 4 GPI (over add-in GPIO Module)
- Output resolution up to 4K in 2D and 2K in 3D
  (4K available through Firmware upgrade on the same hardware)
- High Frame Rate supported (up to 120fps in 2D and 48fps in 3D)
- Fully managed by the Cinecloud Theatre Management System
- Optional Videoscaler Module (VSC) includes:
  - 3x HDMI 1.4a inputs with HDCP support
  - Upscaling up to 4K

Code	Description
D16798	Cinemeccanica IMB 24-10 (2K) + GPIO
D16797	Cinemeccanica IMB 24-10 (2K) +VSC + GPIO
D16798	Cinemeccanica IMB 24-10 (2K) + GPIO
D16801	Cinemeccanica IMB 24-10 (4K) + VSC + GPIO
3812472	Upgrade Cinecloud IMB 2K to 4K
D16803	Videoscaler VSC 4K & GPIO module for Cinecloud IMB

Cinecloud Servers

Cinecloud modules are the major components of the Cinecloud system, each of which can be configured to perform either SMS, TMS or Additional Storage ("Libray") functions.

Each module is equipped with a CPU unit and an hard disk array.

Main Features

- SINGLE, QUAD or OCTAL configuration for up to 8 independent Modules in one chassis
- 2U or 3U standard 19" form factor
- Dual *Hot-swap* power supplies
- 2 x 3,5" (RAID 1) or 3x3,5"Hot Swap HDDs (RAID 5) for up to 6TB net storage capacity each module
- 2 x 1.0 Gigabit Ethernet ports
- Optional 2 x 10 Gigabit Ethernet Card
- Optional CRU bay Interface card

Code	Description
C100120	Cinecloud SINGLE: 1 node 2TB net RAID5
C100130	Cinecloud SINGLE: 1 node 3TB net RAID5
C100140	Cinecloud SINGLE: 1 node 4TB net RAID5
C400420	Cinecloud QUAD: 4 nodes 2TB net RAID5
C400440	Cinecloud QUAD: 4 nodes 4TB net RAID5
C414320	CineCloud QUAD: 3 nodes net 2TB RAID5 + 1 node 4TB net RAID5 w/ CRU Interface
C414340	CineCloud QUAD: 3 nodes net 4TB RAID5 + 1 node 4TB net RAID5 w/ CRU Interface
C800820	Cinecloud OCTAL: 8 nodes 2TB net RAID1
C800830	Cinecloud OCTAL: 8 nodes 3TB net RAID1
C800840	Cinecloud OCTAL: 8 nodes 4TB net RAID1
C813720	CineCloud OCTAL: 7 nodes net 2TB RAID1 + 1 node 3TB net RAID1 w/ CRU Interface
C814720	CineCloud OCTAL: 7 nodes net 2TB RAID1 + 1 node 4TB net RAID1 w/ CRU Interface
C814730	CineCloud OCTAL: 7 nodes net 3TB RAID1 + 1 node 4TB net RAID1 w/ CRU Interface

Network

Each Cinecloud Installation includes a LAN switch to manage all network connections between modules which plays a key role in system performances, allowing **high-speed transfer rates** (FAST option) to copy content between screens and/or **dynamic association** (DYNAMIC option) between each Cinecloud node and each IMB in the Cinema hall, which allows to instantly switch content between screens

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Basic option

Code	Description
3812259	Ethernet Switch **24p**. 10/100/1000

FAST option

Code	Description
3812474	Main Switch SuperMicro 1Gb/s **24p** (2p @ 10Gb/s)
3812475	Main Switch SuperMicro 1Gb/s **48p** (2p @ 10Gb/s)

DYNAMIC option

Code	Description
D17033	SuperMicro Redundant Main Switch **24p**

DYNAMIC + FAST option

Code	Description
D17033	SuperMicro Redundant Main Switch **24p**

Cinecloud Central Libraries

The Central Cinecloud Library is an optional unit which enhances storage space and eases management and distribution of the digital contents.

The Cinecloud Libraries can also perform TMS node functions in lieu of a TMS Server Node

Code	Description
D16814	Library CineCloud Premium 10TB + TMS
D16815	Library CineCloud Premium 20TB + TMS
D16816	Library CineCloud Premium 30TB + TMS
D16996	Library CineCloud Premium 42TB + TMS

Automation

The Automation Box It is based on an integrated PLC connected over LAN with the TMS unit in the Central Server, which allows control of all existing devices into the projection booth

Code	Description
###700	Automation Relays bar for Cinecloud
D16907	Automation Box "Basic" (PLC 14IN-10OUT) - Rack Mount
D16907A	Automation Box "Basic" (PLC 14IN-10OUT) - Wall Mount

M.A.I. 4K

The Video Processor M.A.I. 4K is an optional device that brings together the features of three different devices in one: it is a **Media Playe**r, a **Streaming Receiver** and as a **Videoscaler**.

M.A.I. 4K is currently the **only actual 4K resolution Videoscaler on the market** that can stream alternative digital content (ads, real-time shows, etc..) to the digital cinema projector **from a Central Server**, and is also remotely manageable by the Cinecloud TMS suite (thou it also works in a non-Cinecloud environment).

Main Features:

- Videoscaler up to 4K output resolution
- MPEG-4.10 (H.264), SMPTE 421M (VC-1),AVS, WMV9, MPEG-4.2, and MPEG-2 decoding
- Two independent scaling data-path with optional Picture-In-Picture capabilities
- Fully remote network based management for TMS integration
- 8x HDMI 1.4a inputs with 3D Support
- Analog Input Component/RGBs
- Optional HDD for local storage of digital content.

Code	Description
D16790	Cinemeccanica M.A.I. 4K + Mediaplayer
D16790H	Cinemeccanica M.A.I. 4K + Mediaplayer + HDD 1TB
D16790S	Cinemeccanica M.A.I. 4K Scaler Only
D16807	MAI upgrade 1TB HDD

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