



## Cassini HDD / SSM

### HD Digital Media Players

- IP Streaming
- Store + Forward

### Key Features

#### Triband RF Tuner

NTSC / QAM / 8VSB tuner for flexibility of receiving CATV, Off-the-Air, or internal closed circuit TV content

#### IP Streaming

Support of HD streaming media using UDP or RTP/RTSP protocols. Support up to 19.4 Mb/s streaming HD media

#### High Definition via RF & IP

MPEG-2 / MPEG-4 / H.264 / AVC

#### Display Control

Integrated control configurations to support over 60 displays from seven major display manufacturers

#### Control Options

Support of the follow device control methods:

- IP control from central control center
- IR Remote control at display
- Third-party RS232 serial control, including touch panel support

#### SafePlay™

The Cassini products include proprietary technology to ensure continued play back of graphics and video content even if IP streaming or RF coax signals are disrupted.

### Applications

- Kiosk
- IP Set-Top-Box
- Media Player End Point

The Cassini range of digital media players provides the ideal solution for next generation signage network deployments. With comprehensive support for IP streaming, local storage playback and RF tuning, Cassini is the platform of choice for new build or retrofit applications. All popular Standard Definition (SD) and High Definition (HD) video formats (including 1080p) are fully supported, maximizing the reuse of existing archive content, and providing a clear path forward to High Definition. Cassini is available in four variants to provide the perfect solution for any project.

#### IPTV Support

Cassini provides full support for industry standard IPTV streaming protocols, including RTP/RTSP and vanilla UDP, up to ATSC data rates (19.4Mbps). Cassini is compatible with streaming products from all the major head end server providers. The built in hardware decoder supports MPEG-2 / MPEG-4 / H.264 / AVC for superior digital video and audio performance.

#### RF Over Coax

The built in Triband tuner decodes NTSC, QAM (64/256), and 8VSB/ATSC, providing full support for broadcast television signals over satellite or cable. Cassini is the ideal solution for hybrid live and pre-canned signage scenarios.

#### Content Encryption

The Cassini hardware with optional 128-bit decryption engine and session based watermarking provides industry standard content protection, ideally suited to applications where Digital Rights Management (DRM) and media security are a priority. With support for HDCP and Pro:Idiom™, as well as future support for Verimatrix™ and Cinea™, Cassini provides a solution for any security conscious application.

#### Display Control

Cassini includes built in display control support through HDMI-CEC, SmartPort™, and RS232. The constantly growing library of drivers supports the majority of professional displays from major manufacturers. The Enseo SDK abstracts the specific details of each display protocol providing control system developers with a simple clean interface to work with.

#### SafePlay™

Enseo's proprietary SafePlay™ technology is the ultimate antidote to the blank screen, a major concern in streaming architectures. SafePlay™ provides a backup local source in the event of IP or RF signal loss or hard disk failure. 2 GB of on board solid state storage holds up to 30 minutes of high definition content, ensuring the display always shows a strong message.

#### SDK Support

The Cassini remote control API presents a comprehensive set of management commands for quick and easy integration with any control system. Once the device has an IP address every function can be controlled through a network, for simple centralized control, critical in mass deployments. Key SDK features include, "as played" logging, remote Playlist management, virtual channel mapping, display control, and secure content delivery.

## Cassini SSM / HDD

Features	Benefits
IP and RF Capability	Combine standard RF tuning and IP streaming to make available content, including live cable, over the air and satellite TV input.
High Definition Video	Models support high definition video up to 1080p resolution and bitrates up to 19.4 Mbps (ATSC) for superior performance.
Media Control	The Cassini products allows various forms of media transport methods to be remapped and combined into an easy to use control interface. The result is that whether the content is NTSC, QAM or IP streaming it can be accessed quickly and directly by IR remote, IP control or 3rd party touch panel interface systems.

## Specifications

Media Distribution / Signals	
Digital Tuner	QAM / 8VSB
Analog Tuner	NTSC
IP Protocols	UDP, RTP, RSTP
Media Types	
Video Codecs	MPEG-1, MPEG-2, MPEG-4, H.264
Audio Codec	AC3, PCM, MP3, AAC
Resolutions	480i, 480p, 525i, 720p, 1080i, 1080p
Encryption	Pro:Idiom™ (Optional)
Inputs	
Ethernet	10/100 LAN (RJ45)
F-Connector (Coax)	Coax cable input (CATV / 75 Ohm)
Display Control	TTL or Serial RS232 (RJ11)
System Control	TTL or Serial (RJ11)
Composite Video	(1 x RCA)
L/R Audio	(2 x RCA)
S-Video (Optional)	
Outputs	
HDMI	HDMI 1.3 (HDCP)
Digital Audio	S/PDIF - Line level (Coax)
Analog Audio	L/R - Line level (2 x RCA)
Composite (Optional)*	(1 x RCA)
S-Video (Optional)*	(S-Video connector)
Component (Optional)*	(3 x RCA Y/Pb/Pr or D-Sub15 connector)
* Pro:Idiom decryption not available with analog output devices	
Storage	
Cassini SSM	Up to 9 GB solid-state memory
Cassini HDD	Up to 120 GB 3.5-inch /7200 RPM
Physical / Environmental	
Dimensions	11.5" x 6.26" x 1.1" (LWH) 292mm x 159mm x 28 mm (LWH)
Weight	2.3 lbs / 1 Kg
Power Consumption:	12.5 Watts
Environmental	RoHS compliant
Regulatory	FCC Class B



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