

AD700

Advertisement Insertion



Introduction

AD700 is a professional device suitable for digital cable TV, terrestrial TV, IPTV, OTT, CMMB and other operational scenarios, which can insert local content including logo, picture, subtitle, cartoon, video to all or any of the specified online programs in real time. The system can insert the material to SPTS or MPTS directly without the need of extra transcoding device, which can not only ensure the output video quality but also reduce the system deployment cost. Compared with similar product in market, AD700 provides the most advanced and cost-effective solution.

Features

High Density

Integrates subtitle overlap, Ads insertion, video & audio encoding, transcoding in a single system

High Agility

Modular and local upgrade function, supports different overlap mode; text attributes and picture format, support different resolution, transport stream and protocol

High Security

Supports IP pass-through, N+M redundant cluster hot backup to ensure the non-stop broadcasting; each node supports dual input and output, and can automatically monitor the streams and switch to backup stream

Easy Operation

Single management interface, without the need for additional caption machine, controller or external equipment; supports new configuration wizard (user-friendly interface) and supports frame preview (convenient for fault diagnosis)

Easy to Upgrade

Can obtain new Ads insertion function, compression format, resolution, stream format and control protocol by easily upgrading

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Advantages

High Video Quality

AD700 adopts leading video optimized compression algorithm to obtain the best video quality in lower stream bit-rate. Since the subtitle and finger print overlap and the ads insertion are all implemented in the transport stream level, it will not affect video quality during the video encoding and decoding to ensure the best video quality in different video bit-rate

Multiple Business Platforms

AD700 is a professional digital video advertising insertion product, which integrates Ads, cartoon, picture, subtitle, encoding and transcoding in a single device. It is a high performance and multiple service output platform, which supports both MPEG-2 and H.264 format and is widely used in IPTV, mobile TV, internet TV, VOD and other streaming media services area. The device provides a high density of data processing capability, which effectively minimizes the system construction and maintenance cost

Powerful Backup Mechanism

AD700 supports powerful backup function, in dual card mode, the main input interface is connected with the main network input and the backup interface is connected with the backup network signal. When a system failure occurs in the main network system, it will trigger the internal program switching mechanism and thus the original program stream will loop out without being processed to avoid interrupting the original program playing. AD700 supports multiple hot backup clusters, which can greatly ensure the security of the customer's system operation

Specifications

Input

- ▶ Interface: 2 x GbE (supports redundant backup), ASI(optional)
- ▶ 2 x GbE (redundant, auto-failover) (optional)
- ▶ Compression Format: MPEG-2, H.264
- ▶ Video Format: PAL/NTSC, interlaced/progressive
- ▶ Package Format: TS over MPTS/SPTS
- ▶ Protocol: UDP (unicast/multicast), ASI

Output

- ▶ 2 x GbE (supports redundant backup), ASI (optional)
- ▶ 2 x GbE (redundant, auto-failover) (optional)
- ▶ DVB-ASI, supports loop out (optional)
- ▶ Package Format: TS over MPTS/SPTS
- ▶ Protocol: UDP (unicast/multicast), ASI (optional)

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Specifications

Function
<ul style="list-style-type: none">▶ Inserts local content to any specified content in real-time▶ Seamlessly inserts the Ads to content to keep the smoothness and consistence▶ Ensures the seamless insertion without any static frame, mosaic and black field▶ Automatically processes multi-channel audio and video insertion▶ Supports emergency alarm broadcasting▶ Achieves unattended operation in Ads insertion▶ Program list is editable, and supports insertion time interval,length, and replay times setting▶ Provides local updates and approval tools
N+M Backup (optional)
<ul style="list-style-type: none">▶ Supports WMS100R based N+M backup scheme▶ Supports internal channel backup▶ Supports operational node replacement, upgrade and repair▶ Supports management port redundant backup▶ Reliable system level redundant backup
Power Supply
<ul style="list-style-type: none">▶ 100-240V adaptive dual power supply, 50Hz-60Hz, 750W
Operational Environment
<ul style="list-style-type: none">▶ Temperature: 10°C~35°C▶ Humidity: 10%~80%

Logo and Caption Overlap Function
<ul style="list-style-type: none">▶ Advertising in multiple modes (schedule, manual and ACR based, local insertion and overlays)▶ Text: TrueType font▶ Picture Format: JPEG, GIF, Animated GIF, PNG, BMP, TGA▶ Adjustable overlap effect, transparency, color, size, migration rate▶ Supports DVE shrinkage overlap mode to avoid block the original video▶ Supports coordinating, size, color and other attributes setting for each material▶ Can easily set the overlap layout, format, sequence, location, dynamic rolling speed through the management page▶ Supports broadcasting effect preview function▶ Supports internal stream bit-rate optimizing function to reduce the bandwidth consumption▶ Template and timing broadcasting function▶ Supports real-time publishing and automatic release according to pre-set list
Physical Size
<ul style="list-style-type: none">▶ 1RU chassis▶ Weight: about 19KG
Security Protection
<ul style="list-style-type: none">▶ Supports IP stream loop out from hardware and software▶ Supports passthrough the original stream in real-time automatically or manually