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HE-21 chassis

Arantia IPTV HE-21 headend, 1RU

The device receives digital services through the DVB-T/T2, DVB-S/S2, DVB-C, ISDB-T, ATSC, HDMI, and IP input module for later IP packet encapsulation and streaming through an IPTV network. Includes applications of SAP advertising, UPnP server, UDP to HTTP proxy, SNMP agent and web server, in addition to the possibility of generate own channels as of audio and video files through the optional licenses of Corporate Channel. This chassis has small dimensions (1U heigh of rack 19") and includes a single slot to integrate a input module between the available modules .

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Highlights

- Cost-effective. Good value for money considering the features included in the product
- Multi-Standard. Support for most of the European an American Digital TV (DTV) Standards.
- Web Administration. The Arantia HE-21 configuration is done through a web interface optimizing the installation process
- Customizable. Adaptable to the needs of each project, allowing many configurations, thanks to the different types of cards available
- Central Headend. The flexibility of the system configuration allows the aggregation of services from different sources and their adaptation for the ditribution over IPTV networks
- Descrambling through DVB-CI interfaces included the main input modules.
- Compatible with UHD TV and the new HEVC codec

Main features

- Streaming up to 500 Mbit/s
- Compact headend
- Configuration with a inpunt module
- Web-based Management

- Forced ventilation
- Rack format: 19" (1RU)
- Outputs: 2 10/100/1000BaseT (Administration and IPTV)
- RJ45 connectors
- UDP/RTP transmission supported
- Multicast/Unicast, IPv4/IPv6
- SPTS and MPTS supported (Complete Múltiplex)
- PIDs filtering
- MPEG-2, MPEG-4 AVC/H.264, MPEG-H HEVC/H.265, SD/HD/4K, MP2, MP3, AAC... Transport stream

Discover

APPLICATIONS INCLUDED IN THE HEADEND

- Web server

The Server Web application is an HTTP server embedded in the HE-21 Arantia headend. It can serve both static content and html web pages, documents, images, etc. Content can be easily uploaded through the FTP server provided together with the Web server.

Application examples

- Hospitality systems' middleware
 - Guest welcome screen
 - Firmware for the automatic update of the devices connected to the network
- UPnP server

The UPnP Server application consists in a Universal Plug-and-Play Server embedded in the Arantia HE-21 headend. It is used to announce IPTV services to the devices connected to the network. Networked devices are able to automatically discover the IPTV services. These services can be grouped into containers to make the organization of large channel lists easier.

Application examples

- Automatic IPTV service detection
 - Service bundles by subject
 - URL announcement
- SAP announcements

The SAP Server application consists in an integrated server that implements the IPTV service announcement protocol for the networked devices. Networked devices are able to automatically discover the IPTV services. The IPTV services can be grouped into playlists to make the organization of large channel lists easier.

Application examples

- Automatic IPTV service detection
- Service bundles by subject
- UDP-to-HTTP PROXY

The UDP-to-HTTP application consists in a UDP-to-HTTP multicast traffic relay embedded in the Arantia HE-21 headend. It is capable of resending the multicast IPTV traffic available on a network to the HTTP clients on their request. Since the application does not transcode the contents, the IPTV services reach the HTTP clients with their original quality.

Application examples

- IPTV over wireless networks
- IPTV outside the LAN (Extranet, Internet)
- IPTV in devices that do not support multicast

Technical specifications

Input voltage	Vac	100...240
Frequency range	Hz	50/60
Max. power consumption	W	180
Operating temperature	°C	0 - 45
Storage temperature	°C	-10 - 60
Humidity (non-condensing)	%	10 - 90