



Flexible Adaptive Bit Rate Video Transcoding

- Support generation of multiple resolution, multiple bit rate outputs for adaptive video streaming
- Supports Microsoft® Live Smooth Streaming and Apple HTTP Live Streaming
- Simultaneous MPEG2 HD video output and support for multiple music channels
- Video fragmentation and alignment (fragment sizes from 1-10 seconds)
- Maximize video quality with advanced recoding that repurposes original MPEG video data
- High density—up to six HD inputs per chassis—multiple output formats
- Supports NTSC and DVB video formats

Meet the expanding demand for multi-format, multi-bit rate video delivery to a wide variety of display devices

Video subscribers increasingly expect to be able to view video programs over a multitude of devices—HD and SD TV's, PCs, tablet computers and mobile devices. Supporting this variety of devices requires a high performance, flexible video processing solution. The VIPr4800 is a powerful transcoding platform incorporating Adaptive Streaming to allow video distributors to repurpose video into multiple formats for multi-screen applications. Multiple combinations of input channels and output profiles can be supported, depending on the bit rate and resolutions of the desired formats. The VIPr platform simplifies head-end complexity and improves reliability with an integrated platform that combines decoding, recoding, and closed-loop statistical multiplexing on a single, state-of-the-art Intel six-core chipset. The powerful, programmable VIPr solution provides maximum flexibility with “best in class” MPEG-4 and MPEG-2 coding quality and efficiency.

MPEG-2 HD/SD transcoding to multiple resolutions and formats

The ARRIS third generation VIPr4800 is designed to meet the demand for broadcast video, IPTV, and 3G/4G/WiMax mobile TV. The flexible architecture can easily be enhanced to provide for future video codecs.

Coupled with the VIPr Redundancy Controller (VIPr-RC), the VIPr4800 transcoder offers a fully redundant solution allowing operators to configure highly reliable networks.



VIPr4800 Features

- Intelligent Recode
- Input
 - Transport—MPEG2 Transport Streams
 - Video—MPEG2 and AVC, HD and SD
 - Audio—MPEG1 Layer2, MPEG2 Layer 3, AAC, Dolby stereo and Dolby 5:1
- Output
 - Transport—simultaneous SPTS and Smooth Streaming , multiple bit rate streams output as multicast SPTS.
 - Video—H.264 HD, SD; MPEG2 and multiple mobile resolutions
 - Audio—Pass-through of input audio and transcoding to AAC. Support AAC LC (Low Complexity), AAC HE (High Efficiency) and AAC HE v2
- Profile and Level Support—High, Main and Baseline Profile
- Frame rate conversion—1:1,2:1, and 3:1
- Video fragment alignment and duration—fragment sizes from 1-10 seconds
- Captioning and VBI services
 - EIA 608 captions using SCTE 20/21 (DVS 053/157)
 - EIA 708
 - In DVB applications, support of PIDs with VBI services
- PSIP pass-through
- Picture in Picture support
- Program input redundancy
- Time accurate SCTE35 pass-through
- Web-based GUI or manage through the VIPr Element Manager
- SNMP support
- Interface options include single Gigabit, quad Gigabit or ASI
- Differentiated services code point support
- Software based network appliance architecture
- High reliability/availability
- DVB and NTSC support

For additional information about the VIPr4800 Video Transcoder, contact your ARRIS sales Representative.

Other related Documents:

- Technical Specifications (Pub Code: VIPr4800-TS)

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. ARRIS, the ARRIS logo, Auspice®, BigBand Networks®, BigBand Networks and Design®, BME®, BME 50®, BMR®, BMR100®, BMR1200®, C3™, C4®, C4c™, C-COR®, CHP Max5000®, ConvergeMedia™, Cornerstone®, CORWave™, CXM™, DS®, Digicon®, E6000™, ENCORE®, EventAssure™, Flex Max®, FTTMax™, HEMI®, MONARCH®, MOXI®, n5®, nABLE®, nVision®, OpsLogic®, OpsLogic® Service Visibility Portal™, Opti Max™, PLEXIS®, PowerSense®, QUARTET®, Rateshaping®, Regal®, ServAssure™, Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, Trans Max™, VIPr™, VSM™, and WorkAssure™ are all trademarks of ARRIS Group, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2012 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc. is strictly forbidden. For more information, contact ARRIS.

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