Smart Stream

H 264 Decoder

Product Profile

H 264 Decoder is the professional high scalable, integrated receiver decoder(IRD), Multiple inputs to IP

Gate-way and MPEG-4 AVCstream processor. Featuring broadcast-quality HD/SD MPEG-2, MPEG-4 AVC (H.264) video decoders, It is ideal for full transport-stream distribution and contribution applications, including DVB scrambling and digital turnaround processing.

It supports a rich set of input options, ranging from multiple DVB-S/S2(QPSK,8PSK),DVB-C(QAM),DVB-T/72(COFDM),ISDB-T,ATSC-T to IP and DVB-ASI, Advanced features and 4exibility for IPTV and HDTV Digital Head end Systems IP TV streams can also be received and sent over IP.

The platform's native IP interface seamlessly integrates into scalable,low-cost IP networks.

It is also a cost-effective IP to SDI/HDMI gateway,Which can distribute and deliver video with HDMI to IP H.264 encoder,it's point to point video application.

High Lights

➡ TS Descrambler with two integrated DVB-CI/CI+ slot per chassis, up to decrypt 8 channel per CI module

➡ Standard de;nition MAPEG-2 MP@ML, MPEG-4 AVC Main/High Pro;le 4.0,3.0 video decoding MPEG-1 Layer2, HE-AAC(V2), LC-AAC(option) , AC3 pass through audio decoding

➡ Selectable multiple inputs Tuners (DVB-S/S2/C/T /T2/ ISDB-T/ATSC-T), IP,ASI

➡ Multiple Input to IP and DVB-ASI Mode out: Mux IP/Tuner/ASI-Pass through

➡ Both MPTS and up to 8 SPTS separate IP and Port

Outputs

➡ Two group separate ASI out, Two duplicate ASI per Group

➡ Video decoding Monitor LCD in the front panel SD/HD-SDI, HDMI, YPbPr, Composite and R/L analog audio, S-Video, XLR digital audio outputs Embedded BISS-1 and BISS-E Mode (DSNG- CA)

➡ EBU SUBTITLE and DVB SUBTITLE supported With full remultiplexing, capabilities, including PID ;ltering, remapping and table regeneration More scalable and lower-cost transition to IP- based services.

Resolution

➡ PAL,NTSC,SECAM,720p,1080i

➡ Aspect Ratio Conversion 16:9,4:3

➡ Full High accuracy PCR correction

➡ Management via SNMP, Local front panel with LCD

➡ Input Single Strength and Quality self-detection Easy-to-Use System Management

Technical Specifications

RF input interfaces

➡ DVB-S/S2
frequency range: 950～2150MHz
level: -25～-65dBm
Connector: F type, 75ohm
Symbol rate: 1～45MBauds
LNB Power:13 VDC,18VDC
Demodulation Mode: QPSK,8PSK
Frequency Stepping: 500 KHz

➡ DVB-C RF
Frequency Range: 47-862MHz
Symbol rate: 4-7.0MBauds
Input Level: -15-20dBmV
Demodulation Mode: 16/32/64/128/256 QAM/J.83
A/B/C(Optional)

➡ DVB-T RF
Frequency Range: 146-862MHz
Bandwidth: 8MHz (6,7MHz Optional)
Level: -87- -20dBm
Constellations: QPSK, 16QAM, 64QAM
FEC Demodulation: 1/2,2/3,3/4,5/6,7/8

➡ DVB-T2 RF
Frequency Range: 44-1002MHz
Bandwidth: 8MHz (6,7MHz Optional)

➡ ISDB-T RF
Frequency Range: 153 MHz ~862 MHz
Bandwidth:

➡ ATSC-T RF
Frequency Range:
Bandwidth:

TS in/output interfaces

➡ ASI
1xASI input
4x ASI outputs, 2 group ASI separate, 2 duplicate ASI
per group outputs
impedance:75 ohm
Max transport rate: ≤100Mbps
Addressing Multicast/unicast
Connectors 100M Base-T,RJ45
Encapsulation Protocols MPEG-TS over UDP/RTP

➡ DVB Mode: The IP stream will include all the programs and will be sent to the specified multicast or unicast IP Address.

➡ IPTV Mode: The input transport stream is de-muxed into
individual programs,each in a different IP stream.Up to 8 IPTV addresses may be set.

Video decode output

➡ Interfaces
1x HDMI,HDMI 1.3 interface
1x HD/SD-SDI,BNC
1x YPbPr,BNC
1x Composite ,BNC
1x S-Video
Front Panel LCD video Monitoring

➡ Video Formats
1080i @ 50,60,59.94
720p ,576i,,480i

➡ Analog video outputs
PAL,NTSC,SECAM

➡ Decoding Format
MPEG-2 SD 4:2:0 MP @ ML
MPEG-4 AVC SD MP @ L3
MPEG-4 AVC HD MP @ L4.0 / HP @ 4.0

➡ Video processing
Aspect Ratio Conversion 16:9,4:3,Full
Turn on/off the subtitle

➡ Audio decode output interfaces
1x Pair R/L analog audio,BNC
1x pair R/L digital audio,XLR
Audio mode: stereo,left and right
Volume: 0-25
Front Panel LCD Audio Monitoring

➡ Conditional Access
Two PCMCIA Interface
Scrambling algorithm:DVB-CSA
Up to 8 program descrambling simultaneously
SCS interface: ISO7816
Max bitrate: ≤80Mbps

➡ Re-multiplexing
Full or any program through multiplexing
PID Filter,Remapping,Passthrough
Video Formats 1080i @ 29.97, 30, 25 fps
720p @ 59.94, 50, 60 fps
480i @ 29.97 fps
576i @ 25 fps
480p @ 59.94 fps

➡ Environment
Comply to GB13837-92 & GB8898-88 standard
Power Supply: AC 90-250V 50/60Hz
Power consumption: 20 W
Operating temperature:-10 - 50°C
Storage temperature: -10 - 75°C
Dimensions: 280 (L)x483(W)x44mm(H) (1RU)
Weight: 3.5kg

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