

DIH-4000V

Multi-Channel Low Bitrate H.264 Transcoder

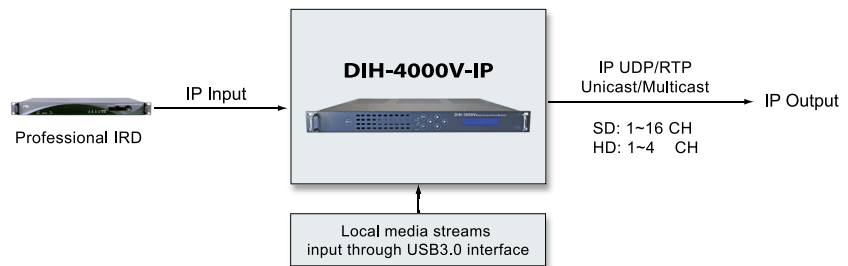


The DIH-4000V low bitrate H.264 Transcoder is specially designed for IPTV system, especially for those IPTV systems over unmanaged network architectures in which the bandwidth are normally limited. Adopting the powerful chipset and high quality compression algorithm, the inputted video transport stream can be compressed into relative low bit rate (<600kbps/channel) while the picture quality is guaranteed. DIH-4000V supports both MPTS and SPTS with a built-in IP re-multiplexer. DIH-4000V is also suitable for the multiscreen applications, where the inputted video can be compressed into various bit rates with different resolutions which are suitable for Smart phones, Tablets, PC and Flat screens simultaneously. DIH-4000V can be managed and monitored by user-friendly WEB interface.

Main Feature

- Comply with MPEG-2(MP@ML) and MPEG-4 AVC Baseline,Main&HighProfile@L4.0 or less
- Comply with MPEG-1 Layer II Audio, AAC, MP3 Decoding and Encoding
- Up to 4 HD or 16 SD transcoding
- Support up to 200 IP output with maximum bit rate of 100Mbps for each
- Off line local files transcoding
- Real-time monitoring on input bit rate, TS counter error, output video/Audio bit rate, PSI/SI information
- Real-time monitoring on the rate of utilization of CPU, running time, memory, etc.
- Last time memory for automatic encoding/transcoding after power recycles
- Re-multiplexer for PSI/SI editing PID pass through/filtering/remapping, PCR adjustment
- Keypad and LCD on front panel for status monitoring and IP address setting
- Remote management over Web GUI
- Support 1:N redundancy

Typical Application



Specification

IP Input	
Interface	RJ45 x2pcs independent and full duplex 1000M/10M,900Mbps (Bandwidth<1200Mbps)
Protocol	UDP, ICMP, IGMP V1, V2, RTP (for re-multiplexer only)
IPaddress	Unicast, Multicast
Resource for transcoding	Local media files or TS/IP
Video/Audio format for Decoding	
Video format	MPEG-2,H.264(baseline, main profile, high profile)
Audio format	MPEG-1,MPEG-2,AAC
Re-Multiplexer	
Format	SPTS/MPTS
Null packets processing	pass through or filtering
TS processing	PSI/SI editing
	PID pass through/filtering/re-mapping
	PCR adjustment
Bitrate	lower than 100Mbps for each SPTS
Numbers of TS	Maximum 200
IP Output	
Interface	RJ45 x2pcs, 1000M/100M, full duplex, 900Mbps per RJ45 (Bandwidth < 1200Mbps)
Protocol	UDP, ICMP, RTMP, IGMP V1, V2, HTTP
IP address	Unicast, Multicast
Video/Audio format for Encoding	

Video format	MPEG-2,H.264(baseline, main, high)
Audio format	MPEG-1 L2 or AAC
Package Format	MPEG-TS
Video resolution	720*480/720*576/544*576/480*576/352*576/352*288/1280*720
Video ratio	4:3/16:9
Video frame rate	25fps, 29.97fps,30fps
Video bitrate	User configuration, recommended value: SD: High(800kbps), Medium(600kbps), Low (512kbps) HD: High(4000kbps), Medium(2000kbps), Low (1200kbps)
Audio sampling rate	11.025KHz, 22.050 KHz, 44.1 KHz, 48 KHz
Audio bitrate	User configuration, recommended value: 32kbps, 64kbps, 128kbps
Management	
Interface	RJ45 x1pcs, 1000M/100M
Protocol	HTTP Web GUI
Redundancy	1:N backup through IP
General	
Power supply	AC 110V~240V, 6A, 47~63Hz, Max.350W
Working temperature	5~45 °C
Storage temperature	-10~65 °C
Dimension	430mm*335mm*44mm
Weight	3Kg

*Note: all specifications are subject to change without notice

Back Panel Interface

