

Professional encoder H264 pbi dch 5000ec

Discontinued



Manufacturer: PBI

Gross (weight): 6 kg

Description:

As the flagship of PBI's encoder series, DCH-5000EC/-5100EC series provide users a high-level operation experience to meet the requirement from the Digital broadcasting market that is transferring from MPEG-2 SD to H.264 HD. Integrated with the TSoIP board, the DCH-5000EC/-5100EC accept TS over IP or ASI input for transcoding, or alternatively accept HD-SDI (audio embedded), HDMI or YPbPr input for encoding, the final output is available in IP or ASI format. By installing an optional extent board, easily upgrade to support two pairs of stereo audio encoding (for DCH-5100EC). The Dolby Digital Audio and AAC audio is looped through and time stamping is automatically implemented to ensure the AV sync at the output side. With an internal re-multiplexer which accepts the SPTS generated by itself and an external DVB-ASI TS as inputs makes DCH-5000EC/-5100EC very flexible and could be adopted by many applications with its high performance and picture quality.

Features:

- H.264/AVC (MPEG-4 part 10), High Profile Level 4.0 compliant
- Various video resolutions options
- HDMI, SDI, YPbPr, CVBS interfaces for encoding
- ASI, 10/100Mbps TSoIP interface for transcoding
- Built-in re-multiplexer
- ASI Input and output, TS over IP I/O (Input or Output user configurable)
- Supports VBR and CBR mode
- AC3, AAC audio pass through for transcoding
- An optional extent board which supports two pairs of stereo audio encoding (DCH-5100EC optional)
- optimized video pre-processing arithmetic ensure a very high-quality picture in low bit rate
- Fully controlled by front panel or PBI HDMS network management system.

Video input and compression

Video Input → HD-SDI □ HDMI □ YPbPr □ CVBS

Video Compression → H.264, High Profile Level 4.0

Video Encoding bit rate → 2Mbps-20Mbps

Audio input and compression

*Audio Input*èBalanced or unbalanced audio, HD-SDI embedded, HDMI

*Audio Compression*è MPEG1 Layer II audio encoding and AAC□AC3 audio pass through transcoding

*Sampling rate*è 48KHz

*Compression rate*è 32Kbps-256Kbps□64Kbps-448Kbps□AC3□

ASI input

*Connector*è BNC Connector, 75Ω

Data mode Byte, Burst auto-adaptive

Packet length 188/204 Bytes auto-adaptive

Signal level 800mV

ASI output

*Connector*è BNC connector, 75Ω

*Data mode*èByte

*Packet length*è188 Bytes

*Signal level*è800mV

TS over IP input/output

*IP input/output*èRJ45, 10/100M

*Maximum output bit rate*è 70Mbit/s

*Protocol*èUDP/RTP . Supports Multicast and Unicast

*Multicast control protocol*èIGMPV2

Rear panel

*Analog AV connector*è YPbPr□Audio RCA(L/R)□CVBS

*HD-SDI connector*è 1×BNC, female

*HDMI connector*è 1×BNC, female

*ASI*è1×input□2×output□duplicated□

*RS-232*èD-Sub 9-pin Serial port

*ETHERNET*è10/100M□ for network management and software upgrading

*TS/IP*è RJ45, 10/100Mbps

Operation Environment

Operating Temperature è 0~40°C

Storage Temperature è -20~70°C

Humidity è < 85%

Power supply è AC90~260V 50Hz/60Hz 15W

Dimensions è 44mm×483mm×340mm

Net weight è 3Kg