

VC-7311

H.264 High Profile Encoder

The VC-7311 is ideal for ISDB-Tb HD/SD TV service, employing High profile@Level 4.0 of the H.264/MPEG-4 AVC coding scheme for video encoding. With NEC outstanding specified-color-adaptive coding algorithm, the VC-7311 carries high quality pictures with HD service and multi SD services.



Features

Video Encoding

- Video Compression Format :
H.264/MPEG-4 AVC coding standard up to High Profile Level 4.0.
- The specified-color-adaptive coding algorithm.

Audio Encoding

- Audio Compression Format :
MPEG-2/MPEG-4 AAC LC Profile, and HE-AAC coding standards.
- Up to 4ES can be encoded.

Digital Closed Caption Data Packetization

- The closed caption data which is embedded in input video signal (compliant with ARIB STD-37) can output with TS closed caption packet.

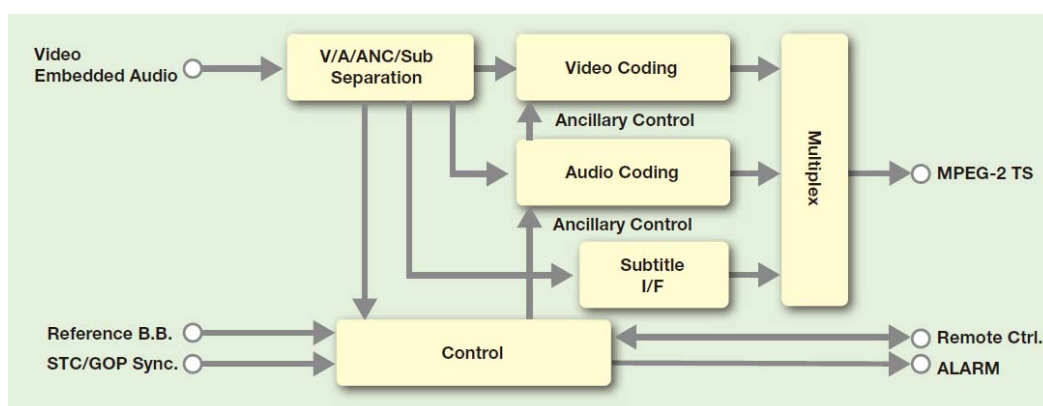
Ancillary Control

- Real time aspect ratio switching and audio mode switching can be controlled by the inter-stationary control signal (compliant with ARIB STD B-39).

Specifications

Input signal Output signal	<p>(1) Input Signal</p> <ul style="list-style-type: none"> 1080i serial digital component video Standard: SMPTE-274M, I/F: SMPTE-292M, Frame freq.: 29.97/25Hz, Interlace ratio: 2:1 720p serial digital component video (option) Standard: SMPTE-296M, I/F: SMPTE-292M, Frame freq.: 59.94Hz, Interlace ratio: 1:1 480i/576i serial digital component video Standard: ITU-R BT.601, I/F: SMPTE-259M, Frame freq.: 29.97/25Hz, Interlace ratio: 2:1 Audio format Embedded Audio (16ch) Closed caption Standard: ARIB STD B-37 <p>(2) Output Signal</p> <ul style="list-style-type: none"> MPEG-2 TS (Transport Stream) I/F: DVB-ASI Format: (204,188) or (188), Mode: byte or packet mode
Video Encoding	<ul style="list-style-type: none"> Coding scheme ITU-T Rec.H.264 ISO/IEC14496-10 High@Level 4.0 Video ES bit rate range 4 - 24Mbps(1080i/720p), 2 - 12Mbps(480i/576i)
Audio Encoding	<ul style="list-style-type: none"> Coding scheme MPEG-2 AAC LC-profile, HE-AACv1 MPEG-4 AAC LC-profile, HE-AACv1, v2 Audio mode 1/0, 1/0 + 1/0, 2/0, 5.1ch etc. Streaming Format LATM/LOAS and ADTS
Control	Inter-stationary control signal (ARIB STD B-39 compliant), Ethernet
Synchronization	<ul style="list-style-type: none"> STC/GOP synchronization signal ISO/IEC13818-1, DVB-ASI Reference signal RS-170A-compliant analog black burst signal
Operation Temperature	10 °C to 35°C
Power Consumption	200VA or less
Dimensions	88(H) x 430(W) x 590(D) mm
Weight	Approx. 15kg

Block Diagram



Safety precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

- The colours in this brochure may differ from those of the actual unit. Designs and specifications of this product is subject to change without prior notice.

For additional information:

Please contact your nearest NEC sales offices or visit www.nec.com.

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