

November 26, 2013

Product Specifications of the Middleware

Main specification of the full-segment middleware for Linux

(1) Product specification

<p>Video Decode</p>	<ul style="list-style-type: none"> • MPEG-1 Video (for full-segment) • MPEG-2 Video (for full-segment) • H.264 (for one-segment)
<p>Video Output</p>	<ul style="list-style-type: none"> • Output format: Maximum size (priority mode of a picture: 1920x1440, priority mode of a bus load: 960x720) YCbCr422, RGB565 format output • Output rate: 30fps, 60fps
<p>Audio Decode</p>	<p>MPEG-2 AAC</p> <ul style="list-style-type: none"> • Sampling frequency: 48 KHz, 32 KHz, 24 KHz (for one-segment) • Output channel: Monaural, Stereo, Dual monaural, Multi-Channel stereo • SBR for one-segment PCM (for storage/built in sound/quick report) • Sampling frequency: 12 KHz • Output channel: One channel
<p>Audio Output</p>	<p>PCM (48 KHz/2 ch)</p>

(2) Overview of the functions: Full-segment

<p align="center">MPEG-2 TS De-multiplexing</p>	<ul style="list-style-type: none"> • MULTI2 descramble • PES filtering • Section filtering • Detect of specified PID suspension • Detect of video/audio PID change
<p align="center">Descramble control</p>	<p>MULTI2 descramble by ECM</p>
<p align="center">Audio</p>	<ul style="list-style-type: none"> • Audio PES decode • Audio output controlled by upper layer software <ul style="list-style-type: none"> ○ Channel select (Monaural/Stereo/Main-Sub switch) ○ Select volume (Dual volume control of main volume and storage/built-in sound/quick report) ○ Audio output muting ○ Playback function for stored ES • Down mix output for multi-channel stereo • Audio multiplex output of selected PCM data file (storage/built-in sound/quick report) • Audio stream information report
<p align="center">Video</p>	<ul style="list-style-type: none"> • Video PES decode • Video stream information report
<p align="center">Caption/Closed caption</p>	<p>Extracting PES format data</p>
<p align="center">Section processing</p>	<ul style="list-style-type: none"> • Extracting section format data • ECM/EMM section filtering for CA control (B-CAS card control/content protection system)
<p align="center">Data broadcasting support</p>	<p>Extracting section format data</p>

(3) Overview of the function: One-segment

MPEG-2 TS De-multiplexing	<ul style="list-style-type: none">• PES filtering• Section filtering• Detect of specified PID suspension
Audio	<ul style="list-style-type: none">• Audio PES decode• Audio output controlled by upper layer software<ul style="list-style-type: none">◦ Channel select (Monaural/Stereo/Main-Sub switch)• Audio stream information report
Video	<ul style="list-style-type: none">• Video PES decode• Video stream information report
Caption	Extracting PES format data
Section processing	Extracting section format data

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