



VPU Encoder

Product Data Sheet

V1.2

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Features

- Support for multi-threaded environment
- Conformant to applicable standards.
- Encoding support from camera, file or streaming protocol
- Support for CBR and VBR
- Support for configuration of frame reduction
- Support for configuration of gop sizes and quality settings
- GStreamer plugin wrapper for Linux® platforms
- DirectShow filter wrapper for Windows® CE platforms
- OpenMAXIL layer component

Supported Platforms

- Hardware – i.MX which includes VPU Hardware
- Software – eLinux, Windows® Embedded CE operating systems

VPU Chip Details

i.MX27 Platform	Supported Codecs
<ul style="list-style-type: none"> • Max Encode Resolution: D1 • Max number of Instances: 2 	<ul style="list-style-type: none"> • H.264 Baseline Profile Level 3 • MPEG-4 Simple Profile Level 5 • H.263 Profile 0 and Profile 3 Level 70
i.MX51 Platform	
<ul style="list-style-type: none"> • Max Encode Resolution: D1 • Max number of Instances: 4 	<ul style="list-style-type: none"> • H.264 Baseline Profile Level 3 • MPEG-4 Simple Profile Level 5 • H.263 Profile 0 and Profile 3 Level 70 • JPEG Baseline Profile • MJPEG Baseline Profile
i.MX53 Platform	
<ul style="list-style-type: none"> • Max Encode Resolution: D1 (720p) • Max number of Instances: 4 (up to 16) 	<ul style="list-style-type: none"> • H.264 Baseline Profile Level 3.1 • MPEG-4 Simple Profile Level 5 (6) • H.263 Profile 0 and Profile 3 Level 70 • JPEG Baseline Profile • MJPEG Baseline Profile
iMX6Q/D Platform	
<ul style="list-style-type: none"> • Max Encode Resolution: 1080p • Max number of Instances: 4 (up to 16) 	<ul style="list-style-type: none"> • H.264 Baseline Profile Level 4.0 • MPEG-4 Simple Profile Level 7 and up to 720p • H.263 Profile 0 and Profile 3 Level 70 and up to 720p • JPEG/MJPEG Baseline Profile

Encoding latency is affected by the configuration of the bitrate, gop size and quality settings.

For further details, contact a Freescale customer representative.