Z3-DM81X8-RPS

Available Starter Kits

- Z3-DM8168-RPS
  - Dual Channel
  - Fan
- Z3-DM8148-RPS
  - Single Channel
  - Heat Sink

Applications

- Broadcast Video
- Video Security and Surveillance
- Digital Signage and Video Kiosks
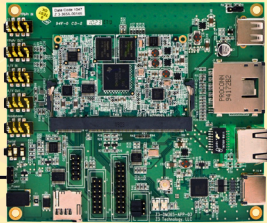- Internet Gaming
- Industrial Applications

Performance

- 1080p60 H.264 + AAC encode or decode

Features

- High Density connectors to interface all signals
- 1 GB DDR3 and 256MB NAND Flash
- GigE, PCIe 2.0, SATA2, USB 2.0, SD/MMC, UART, I2C, SPI ports
- Supports up to 1080p60
- Multiple analog/digital video and audio I/O ports
- One Z3-DM81X8-MOD (88 x 108mm)
- One Z3-DM8168-APP (88 x 186mm)

Software Options

- Linux 2.6, mini filesys, Boot from NAND, Flash Programming Tool
- File based encoder and decoder
- Low latency RTP
- EZSDK 5.0X supported
- Multi-channel RDK available for additional license

Z3-DM36X-RPS

Applications

- Broadcast Video
- Video Security and Surveillance
- Digital Signage and Video Kiosks
- Internet Gaming
- Networked Multimedia Appliance
- Industrial Applications

Performance

- Up to 1080p30 H.264 + AAC encode or decode
- Up to 1080p30 MPEG-4 SP/ASP + AAC encode or decode
- Up to 1080i30 MPEG-2 + MPEG audio decode
- Up to 1080i30 MJPEG + audio file decode
- Z3-DM365-RPS Limited to 720p30 H.264

Features

- Component input/output supports up to 1080i
- Composite input/output support NTSC and PAL
- HDMI 1.3 output
- SD and microSD card, Ethernet interface, USB type A interface
- Compact Module 44 mm x 67 mm

Software Options

- UBL, Linux 2.6, mini filesys, Boot from NAND, Flash Programming Tool
- AVI file based encoder and decoder
- Low latency RTP based encode and stream
- Low latency RTP decode from stream

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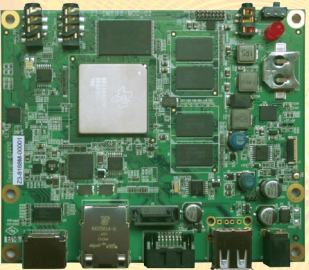sales@infinitysales.com
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VIDEO APPLICATIONS CATALOG

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1080p60 — Z3-DM8169-VI-RPS

Performance
- 1080p60 H.264 + AAC encode or decode
- Supports MPEG-2 +AAC encode or decode
- Supports Broadcast Quality TruView™ H.264 encoder
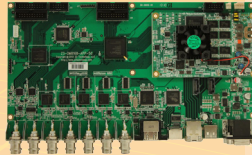- Outputs RTP or MPEG-2 TS

Features
- Supports up to 1080p60 resolution
- 1 GB DDR3 and 256MB NAND Flash
- GigE, PCIe 2.0, SATA2, USB 2.0, SD/MMC, UART, I2C, SPI ports
- 3G SDI In/Out, ASI In/Out
- One Z3-DM8169-MOD-2X (88 x 108mm)
- One Z3-DM8168-APP-3X (90 x 218mm)

Software Options
- Linux 2.6, mini filesys, Boot from NAND, Flash Programming Tool
- Low latency RTP and MPEG-2 TS
- EZSDK 5.0X
- Multi-channel RDK available for additional license
- Web Server Interface

1080i60 — Z3-DM8169-4CH-RPS

Performance
- Up to H.264 1080i + AAC encode or decode
- Supports MPEG-2 +AAC encode or decode
- Outputs RTP or MPEG-2 TS

Features
- Supports up to 1080i resolution
- 4K HDMI Output
- 1 GB DDR3 and 256MB NAND Flash
- GigE, SATA2, USB 2.0
- HD-SDI In, HDMI In/Out, ASI In/Out, YPbPr and Composite Out
- One Z3-DM8169-MOD-3X (68 x 108mm)
- One Z3-DM8168-APP-5X (142 x 257mm)

Software Options
- Linux 2.6.3x, u-boot, Boot from NAND, tool chain, Flash Programming Tool
- Multi-channel RDK framework
- Low latency RTP and MPEG-2 TS
- Web Server Interface

1080i60 — Z3-DM368-VI-RPS

Performance
- H.264 High Profile encode up to 1080p at 30fps
- Supports H.264 (MPEG-4 AVC) BP, MP, HP and MPEG-2
- Supports AAC stereo audio
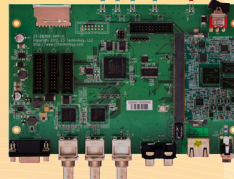- Outputs RTP or MPEG-2 TS
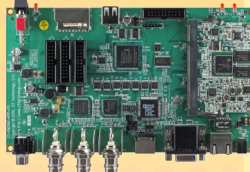
Features
- HD resolutions up to 1920x1080, including 1080i, 1080p30 and 720p
- SD encoding for ISDB-T, DVB-H, ...etc.
- HD-SDI In/Out, ASI In/Out, non-HDCP HDMI In, Component In, Composite In, RGB IN
- Output Interfaces: Ethernet and ASI
- Ethernet, USB, SD Card, Serial
- One Z3-DM368-MOD (44 x 67mm)
- One Z3-DM368-APP (100 x 130mm)

Software Options
- Linux 2.6, mini filesys, Boot from NAND, Flash Programming Tool
- Low latency RTP and MPEG-2 TS
- Web Server Interface

1080i60 — Z3-DM368-SDI-RPS

Performance
- H.264 High Profile encode and decode from QCIF up to 1080p/i at 30fps
- Supports H.264, and MPEG-2
- Supports AAC stereo audio
- Outputs RTP or MPEG-2 TS

Features
- HD resolutions up to 1920x1080, including 1080i, 1080p30 and 720p
- SD encoding for ISDB-T, DVB-H, ...etc.
- Video Inputs: HD-SDI, Composite
- Output Interfaces: Ethernet and ASI
- Ethernet, USB, SD Card, Serial
- One Z3-DM368-MOD (44 x 67mm)
- One Z3-DM368-APP (178 x 123mm)

Software Options
- UBL, Linux 2.6X, u-boot, root filesys, Boot from NAND, tool chain, Flash Programming Tool
- Low latency RTP and MPEG-2 TS
- Web Server Interface

Z3-DM8168-PCI-RPS

Performance
- Up to 1080p60 H.264 + AAC encode or decode

Features
- High Density connectors to interface all signals
- 1 GB DDR3 and 256MB NAND Flash
- GigE, PCIe 2.0, SATA2, USB 2.0, SD/MMC, UART, I2C, SPI ports
- HDMI 1.4a at up to 1080p60, Analog YPbPr and RGB In
- HDMI video output at up to 1080p60
- One Z3-DM8168-MOD-34-EP (68 x 108mm)
- One Z3-DM8168-APP-22 (89 x 168mm)
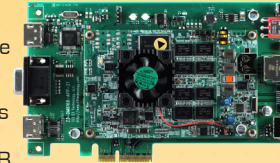
Software Options
- Linux 2.6, mini filesys, Boot from NAND, Flash Programming Tool
- Low latency RTP and MPEG-2 TS
- EZSDK 5.0X
- Multi-channel RDK available for additional license

Z3-DM8168-DVR-RPS

Performance
- Simultaneous 16 channel D1 composite video recording + simultaneous decoding
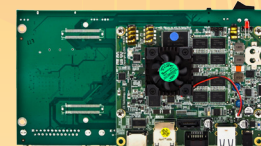
Features
- Up to 16 channel composite inputs, 16GPIO's
- GigE, Dual USB 2.0, SATA2, Dual HDMI Output, Serial
- DB-9 Serial Port Communications
- One Z3-DM8168-MOD-24 (88 x 108mm)
- One Z3-DM8168-APP-1X (100 x 190mm)

Software Options
- Linux 2.6, mini filesys, Boot from NAND, Flash Programming Tool
- File based encoder and decoder
- RDK framework
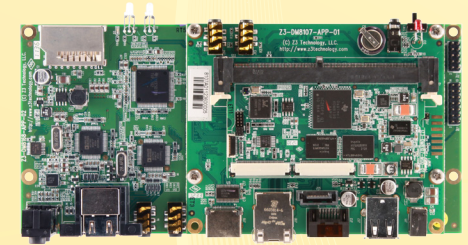
Z3-DM8107-RPS

Applications
- Broadcast Video Encoding/Decoding
- Video Security and Surveillance
- Medical Video
- Industrial Video
- Low Power 1080p60 Encoder

Performance
- H.264 video endcode, from QCIF to 1080p/i at up to 60 fps; AAC or PCM audio
- H.264 video decode from QCIF to 1080p/i at up to 60 fps with audio

Features
- 1 GB DDR3 and 256MB NAND Flash
- GigE, SATA2, serial, HDMI/Component/Composite output, USB 2.0
- Supports up to 1080p60
- HDMI or Component input with audio
- 240 pin DIMM interface
- One Z3-DM8107-MOD (82 x 43mm)
- One Z3-DM8107-APP-0x (108 x 88mm)
- One Z3-DM8168-APP-0x (186 x 88mm), SD/MMC card socket

Software Options
- Linux 2.6, u-boot, root file-system, NAND boot, tool chain, Flash Programming Tool
- Low latency RTP or MPEG-2 TS
- RDK framework

sales@z3technology.com

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