

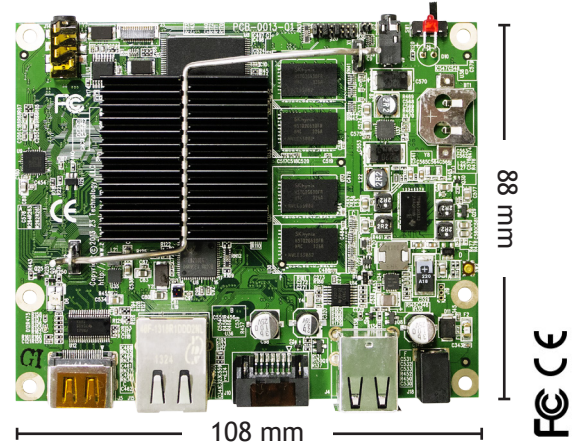


Z3
Technology®

Z3-DM8148-MOD

OEM Production-Ready Module

The Z3-DM8148-MOD is a compact 88 x 108 mm OEM-ready module that supports H.264 encode/decode at up to 1080p60. Encode and stream, decode from stream or store in file are supported. With an integrated powerful 2D and 3D graphics accelerator and DSP, the Z3-DM8148-MOD is also the platform of choice for networked audio, test and measurement, power and energy management, industrial vision and control, point of sale, portable data terminals, human machine interfaces, integrated embedded Linux systems and communication infrastructure applications.



Pre-loaded, OEM Ready Video Application Executable Commands License Available with RPS Development Kits

BENEFITS

- > Robust display capabilities with HDMI and composite video output
- > Production-proven, fully integrated hardware and software audio/video system
- > Cookie-cutter video solution for embedded applications
- > Cost effective design, optimized for manufacturing in volume
- > Versatile encoding moves such as low latency, high quality and low bitrate
- > Linux-based system, easy to customize if needed

APPLICATIONS

- Security and Surveillance
- IP Cameras
- Digital Signage and Video Kiosks
- Medical and Industrial Video
- Customized Applications*

***Contact Z3 Technology for Customized Product Options**

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Hardware

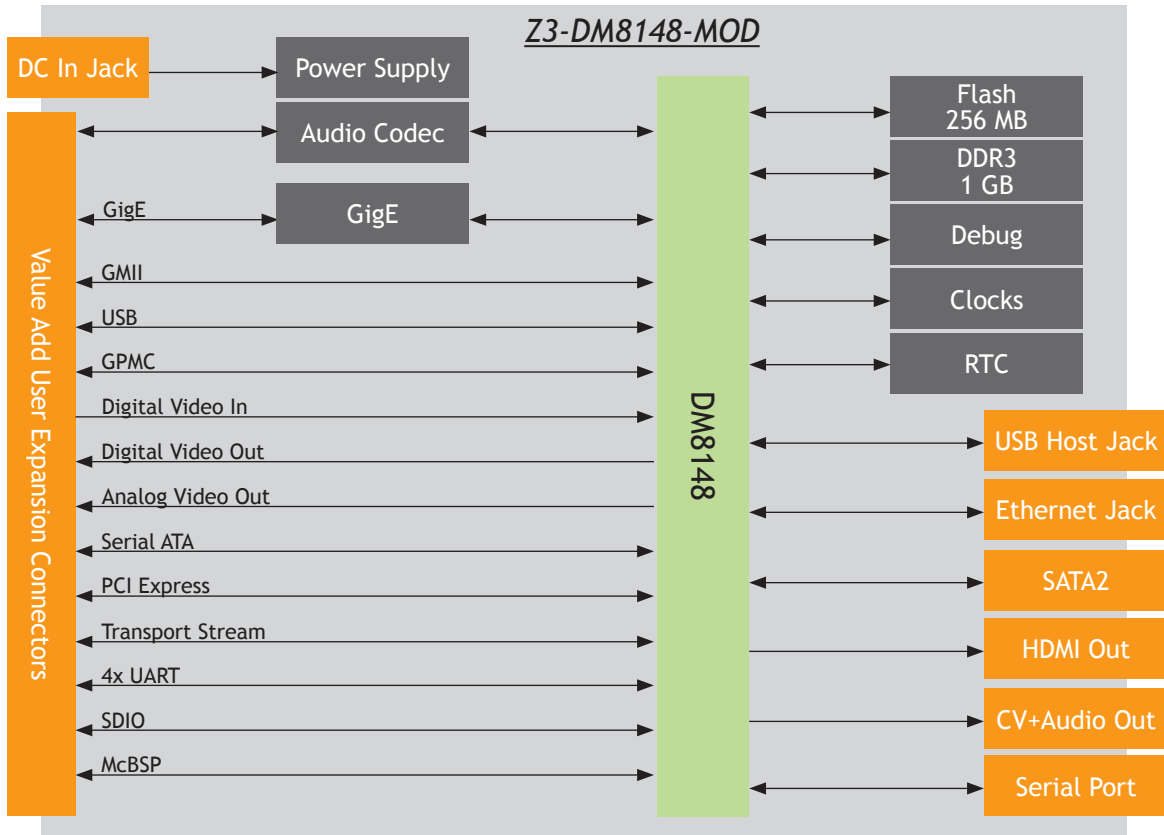
Module	Z3-DM8148-MOD	
Processor	DSP + ARM Cortex A8	
Video Codecs	H.264	
Expansion Interface	<ul style="list-style-type: none"> •Comprised of five high density connectors •80 or 100-pin connectors options* 	
Video Interfaces	Analog & Digital Video I/O	SD/MMC
<i>(Available via On-board I/O Jacks, Expansion Connectors or Z3 Application Boards)</i>	Analog & Digital Audio	UART
	USB 2.0	I2C
	GigE	SPI
	SATA2	Digital Video I/O Ports
Audio Codecs	AAC or PCM	
Memory	DDR3: 1GB	
	Flash: 256 MB	

Software

Software Development	Texas Instruments® RDK, Z3 Technology software components for RDK, Z3 Applications	
Operating System	Linux 2.x (root file-system, NAND boot, tool chain and flash programming tool), u-boot	
Encoding Resolutions	H.264 video from QCIF to 1080p60	
Output Formats	RTP and MPEG-2 TS	
Decoding Resolutions	H.264 video from QCIF to 1080p60	
Input Formats	RTP and MPEG-2 TS	
Features	<ul style="list-style-type: none"> •Advanced video processing features such as scan, format and rate conversion •3D graphics and advanced display capabilities at up to 1920 x 1080 resolution •Video and graphics resizing with overlays • Source code license available* 	

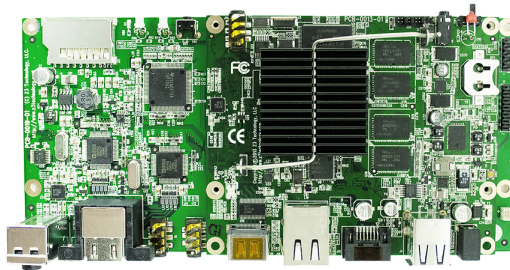
Specifications

Module Size	108 x 88 mm (4.25 x 3.46 in)
Power Supply	12V
Typical Power Consumption	7W



RPS Starter Kits

Starter Kit includes the Z3-DM8148-MOD, an Application (I/O Board), Pre-loaded Production Software and Documentation.



Z3-DM8148-RPS

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Z³ Technology is the market leader in providing production-ready embedded multimedia solutions and systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your multimedia product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.