

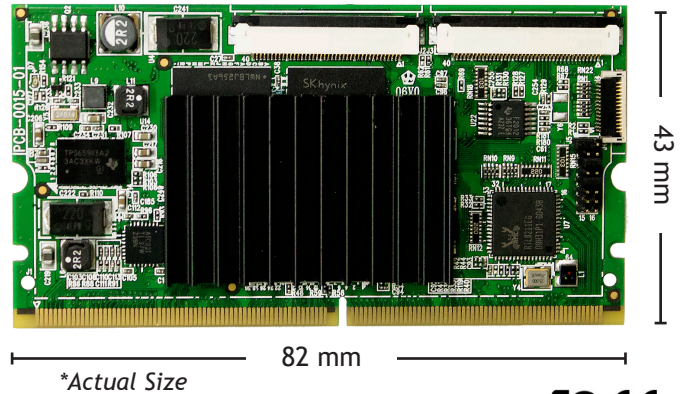


Z3
Technology®

Z3-DM8107-MOD

OEM Production-Ready Module

The Z3-DM8107-MOD is a compact 82 x 43 mm OEM-ready module that supports encode and decode of H.264 up to 1080p at 60 fps. This module supports encode to stream and decode from stream or storage. Integrated hardware accelerators for video compression and decompression and powerful peripherals, such as 3Gbps SATA2, PCI Express and Gigabit Ethernet, make the Z3-DM8107-MOD the platform of choice for networked audio, test and measurement, power and energy management, industrial vision and control, point of sale units, 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

- > Low power, high performance hardware accelerated video compression
- > Production-proven, fully integrated hardware and software audio/video system
- > High performance with low power consumption
- > Cost effective design, optimized for manufacturing in volume
- > Supports H.264 HP in resolutions from QCIF to 1080p60
- > Ready to use, out-of-the-box commands for encoding, decoding and streaming

APPLICATIONS

- Medical Imaging
- Digital Video Recorders
- Network Video Recorders
- Industrial Video Interface Displays
- Customized Applications*

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

sales@Z3technology.com

+1.402.323.0702

www.Z3technology.com

Hardware

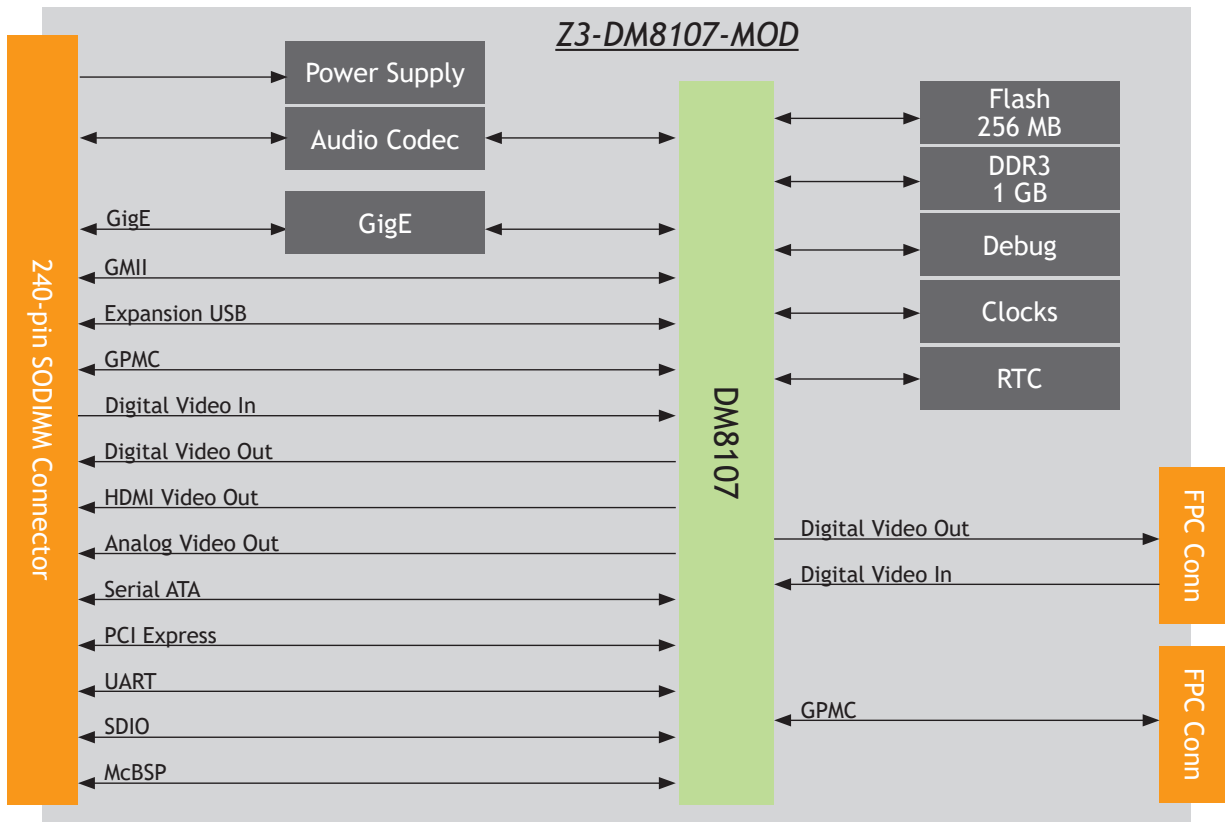
Module	Z3-DM8107-MOD	
Processor	ARM Cortex A8	
Video Codecs	H.264	
Connectors	<ul style="list-style-type: none"> • 240-pin Mini-DIMM board to board connector • Two 40-pin FPC connectors provide access to remaining I/O functions 	
Interfaces <i>(Available via Expansion Connectors or Z3 Application Boards)</i>	Analog & Digital Video I/O	PCIe
	Analog & Digital Audio	UART
	USB 2.0	I2C
	GigE	GPMC Signals
	SD Card	VOOUT Signals
	SATA2	
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, RTSP, RTMP, 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 • Video and graphics resizing with overlays • Source code license available*

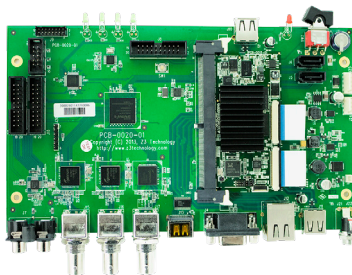
Specifications

Module Size	82 x 43 mm (3.23 x 1.69 in)
Power Supply	5V
Typical Power Consumption	6W

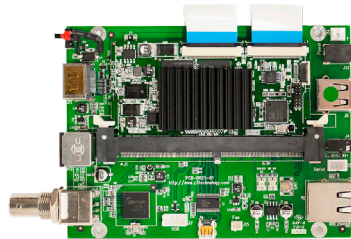


RPS Starter Kits

Each Starter Kit includes the Z3-DM8107-MOD, an Application (I/O Board), Pre-loaded Production Software and Documentation.



Z3-DM8107-SDI-RPS



Z3-DM8107-SDI2-RPS

***Contact Z³ Technology for Customized Product Options**
sales@Z3technology.com +1.402.323.0702 www.Z3technology.com



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.