

PARTNER SOLUTION: MRA Digital MAX10 Stackable SOMs

FPGA's Powers Motor Control and Video Imaging Applications



Headquartered in Columbia, MD, MRA Digital is a privately held company that designs and develops state-of-the-art electronics and systems for military and defense applications. These products include Wireless Low Latency Video (WLLV™), Near-to-Eye and Opto-electronic systems just to name a few.

MRA Digital's technology is used by the top defense contractors within the United States and around the world.

Designed with scalability in mind, the MAX10-SOM-50 allows designers to develop sophisticated systems using a modular approach. MRA Digital has created various **stackable modules** that enable designers to extract the full power and capabilities of the MAX10 device. The modules include Dual Gigabit Ethernet, Imaging Sensors, Motor Controllers, LCD/Video Interface and more. The modules are designed to be connected in any order or configuration to meet your project application's needs and requirements.

In addition to custom expansion modules, MRA Digital has an extensive library of FPGA IP Cores that can be leveraged to shorten the development time, reducing overall development risk and cost.



Applications

- Motor Control
- High-speed Communications
- Signal Processing
- Data Acquisition
- Image Sensor Processing
- LCD/OLED Video Drivers

Technical Details

- 1Gb DDR3 Memory (24 bit)
- Dual Gigabit Ethernet
- 16 bit ADC
- 148 User I/O Pins
- 512 Mbit Serial Flash
- DAC Ports
- Security EEPROM
- Expansion Ports & Modules
- Multiple Voltage Rails
- Form factor: 63.5 x 66.04 mm

Software Details

- USB Driver (see Technical contact for download details)

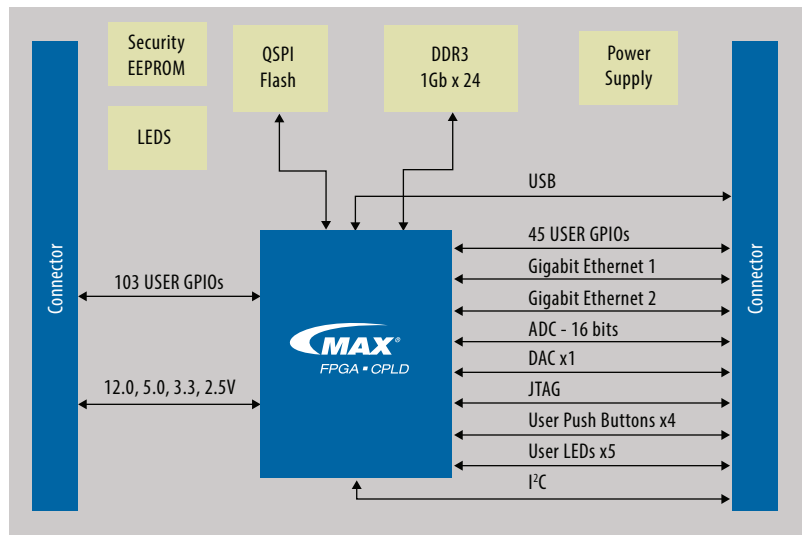
Ordering Details

- Part #: MAX10-SOM-50
- Pricing – **Contact MRA Digital**
- Order here: <http://mradigital.com/max10-som-50.html>

Contact Details

- Business contact – sales@mradigital.com 443-224-8955
- Technical contact – glen.alexis@mradigital.com 443-224-8955
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Figure 1. MAX 10S-SOM-50 SOM Block Diagram



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