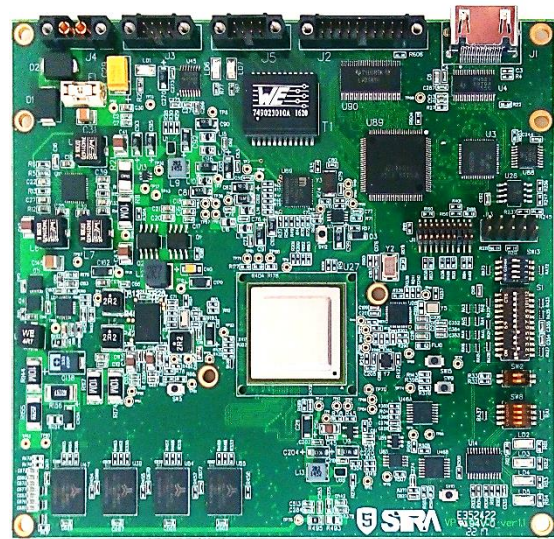


Single Board Computer

- ▲ Compact Size
- ▲ Fast Bootup
- ▲ Built-in DSP
- ▲ Linux and RTOS Support
- ▲ ARM and DSP cores
- ▲ Built-in GigE Vision Driver
- ▲ Built-in H.264 Codec
- ▲ Full HD Support @ 60Hz
- ▲ High Operating Temperature
- ▲ Military Grade/Industrial Grade
- ▲ Direct LVDS out, HDMI Out
- ▲ Ready for Rugged Video Applications in Displays Consoles, Encoders and Decoders.



The STIRA Video Processing Module is a compact Single Board Processor module, which is capable of decoding and display GigE Vision streams @50fps with SVGA resolution and @30fps with XGA resolution. Module also supports H.264 encode/decode at up to 1080p60. With an integrated powerful 2D and 3D graphics accelerator and DSP, the STIRA Video Processing Module is also the platform of choice for industrial vision and control, portable data terminals, human machine interfaces, integrated embedded Linux systems and communication infrastructure applications.

Technical Specifications

Processor	TI Davini Arm Cortex-A8 (Max 1 GHz) + DSP C674x (Max 750 MHz)
Video acceleration	HDVICP
RAM	DDR3 512 MB
Ethernet	1000/100/10 Mbps
Flash	NAND 2Gb , SPI NOR 32 MB
Video out	LVDS, HDMI v2.0
UART	RS232/RS485
Operating Temperature	-20 to 95 °C
Operating System	Embedded Linux , TI RTOS
Display Layers	Graphics Layer x3 , Video Layers x 3
Codec Support	Encode/Decode @1080p60 H264/MPJPEG/MPEG4
Gige Vision Stream	Stream Decoding and Display @50fps with SVGA resolution and @30fps with XGA resolution
DSP Codecs	For Image Enhancement and Processing
Boot Time (Configuration to Application).	Linux - (23 Secs) RTOS - (6 Secs)
Dimensions	120mm x 130mm

Power

Operating voltage	12 Volts DC
Operating Current	580mA
Electrical Power Consumption	7 Watts