

DFM

Dual-head video processing board

Embedded processing

The DFM is a small form factor video processing module to build embedded vision solutions utilizing two cameras. This makes it an ideal solution for stereoscopic imaging or sensor fusion.

Maximized flexibility

The DFM module utilizes a powerful video processor with 3D and 4K x 2K support. A broad range of system interfaces is available to offer maximum flexibility to the user for system integration. Moreover a board-to-board interface allows system integration on a motherboard.

Software programmable

An onboard ARM-based processor is open to the user to integrating DSP functionality for image fusion, stereoscopic measurement, OSD generation, file management systems and many more.

Features

- Supports 2 camera inputs for sensor fusion
- 4K (UHD) ready
- Support for 3D stereoscopic imaging
- Onboard ARM-Core with Linux OS
- Board-to-Board connector for easy system integration
- HDMI; USB2.0 and Ethernet
- MIPI and USB3.0 optional



Specifications

Entner Electronics UC-Series

	Supported cameras
	Sony FCB-EV Series Other cameras can be supported on request
Digital interfaces	<ul style="list-style-type: none"> ○ Ethernet – 1Gb ○ HDMI 2.0 ○ USB2.0 Host/Device ○ MIPI (Option) ○ USB3.0 (Option)
Camera control	<ul style="list-style-type: none"> ○ VISCA commands via virtual COM port ○ UVC commands will be translated into VISCA commands ○ Serial COM port (H/W)
System interfaces	<ul style="list-style-type: none"> ○ RS-232 debug connector ○ IR/Trigger ○ 12x GPIO ○ SD Card ○ 2x CAN ○ LVDS for TFT display
Memory	<ul style="list-style-type: none"> ○ 64MB NOR-Flash ○ 1GB DDR3L
Power	12V DC, 5W – Depending on camera configuration
Dimensions & Weight	80x50x15 mm, appr. 20g
Operating temperature	0°C to 40°C ambient
Image processing features	Linux based ARM-Core for onboard processing, open to the developer