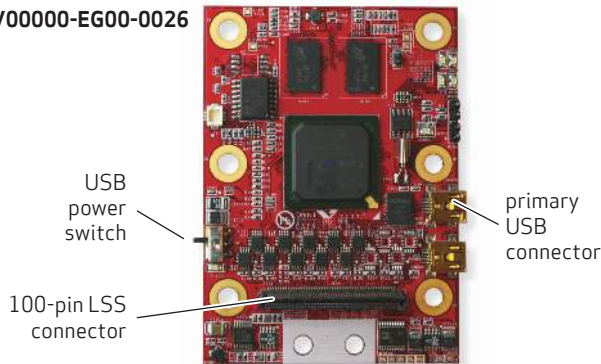
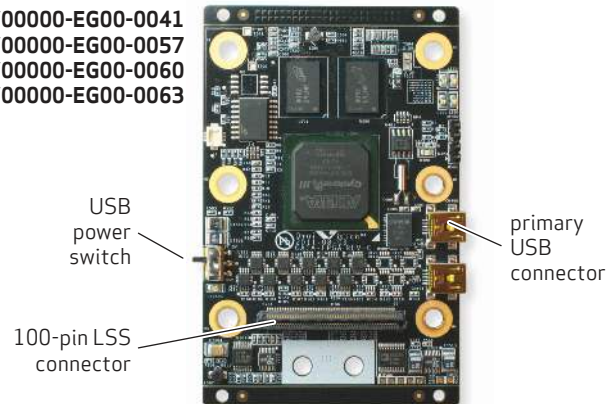


GAIA development kit

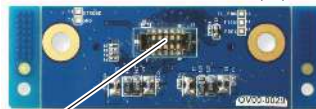
OV00000-EG00-0026



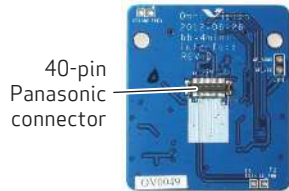
OV00000-EG00-0041
OV00000-EG00-0057
OV00000-EG00-0060
OV00000-EG00-0063



OV00000-EG00-0029 (old)



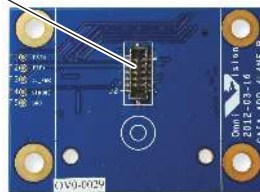
OV00000-EG00-0049



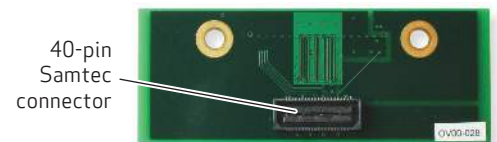
40-pin Hirose connector

OV00000-EG00-0029 (new)

OV00000-EG00-0065 (new)



OV00000-EG00-0028



40-pin Samtec connector



available in a lead-free package

Up to 8-lane MIPI interface FPGA platform supporting 720p to 16MP RAW CMOS image sensors

The GAIA development platform enables the end-user to evaluate multiple OmniVision sensors of various resolutions and develop drivers with ease. It is powered through the USB interface and offers Plug-and-Play capability.

The platform consists of three boards. The GAIA FPGA board converts the MIPI to parallel and outputs through USB and serves as the main board for all controls and configurations through the USB interface. This board comes with a CD that has PC tools and instructions. The board has a 100-pin connector with all the required signals to support various camera interfaces.

The second board is a sensor transfer/adaptor board that converts signals from the 100-pin connector to the camera module specific connector so that the sensor camera module can be plugged in directly. Since there are different camera module connectors, such as the 40-pin Panasonic, the 40-pin Hirose and the 40-pin Samtec connectors, various transfer boards are available.

The third board is the camera module board with the OmniVision image sensor on board. Each sensor has its own specific camera module board. The GAIA FPGA board also has an auxiliary USB port that can provide additional power if needed.

For additional information, please visit www.ovt.com.

part number	description
FPGA receiver board	
OV00000-EG00-0026	8-lane MIPI/LVDS FPGA receiver board, without ISP functions
OV00000-EG00-0041	8-lane MIPI FPGA receiver board, with ISP functions
OV00000-EG00-0057	8-lane MIPI FPGA receiver board, without ISP functions
OV00000-EG00-0060	HDR demo kit, with ISP functions
OV00000-EG00-0063	8-lane MIPI FPGA receiver board, with ISP functions
transfer/adaptor boards	
OV00000-EG00-0028	transfer/adaptor board for OV5680, OV5690, OV8820, OV8830, OV8850, and OV9770 prototyping boards
OV00000-EG00-0029	transfer/adaptor board for all rigid modules
OV00000-EG00-0030	transfer/adaptor board for OV10810 and OV16820 prototyping boards
OV00000-EG00-0031	transfer/adaptor board for prototyping boards using DVP interface
OV00000-EG00-0049	transfer/adaptor board, 40-pin Panasonic connector
OV00000-EG00-0061	transfer/adaptor board for OV660 and OV10820 prototyping board
OV00000-EG00-0062	transfer/adaptor board for OV16825 rigid module
OV00000-EG00-0065	transfer/adaptor board for all rigid modules, DVDD = 1.5V
prototyping boards with image sensor (for use with OV00000-EG00-0028 only)	
OV07695-EAAA-AA0A	prototyping module for VGA CSP image sensor
OV09770-EAAC-AA0A	prototyping board with 720p HD image sensor
OV09714-EAAA-AA0A	prototyping module for 720p CSP image sensor
OV09724-EAAA-AA0A	prototyping module for 720p CSP image sensor
OV09728-EAAA-AA0A	prototyping module for 720p CSP image sensor
OV04688-EAAC-AA01	prototyping module for 4MP CLGA image sensor
OV05645-EAAA-AA0A	prototyping module (CSP sensor based)
OV05648-EAAA-AA0A	prototyping module (CSP sensor based)
OV05693-EAAC-AA0A	rev 2B/C - prototyping module using CLGA image sensor
OV05693-EAAC-AA03	rev 3A - prototyping module using CLGA image sensor
OV05680-EAAC-AA0A	prototyping board with 5MP (2-lane MIPI) image sensor
OV05656-EAAA-AA0A	prototyping module for 5MP CSP image sensor
OV05658-EAAA-AA0A	prototyping module for 5MP CSP image sensor
OV08850-EAAC-AA03	rev 3A prototyping module using CLGA image sensor
OV08825-EAAP-AA0A	prototyping board with 8MP (4-lane MIPI) image sensor
OV08835-EAAC-AA0A	prototyping board with 8MP (4-lane MIPI) image sensor
OV08865-EAAC-AA0A	prototyping board with 8MP (4-lane MIPI) image sensor
OV12830-EAAC-AA0A	prototyping board with 12MP (4-lane MIPI) image sensor
OV14810-EAAA-AA0A	prototyping board with 14MP (4-lane MIPI) image sensor
rigid modules with image sensor (for use with OV00000-EG00-0061 only)	
OV10820-EAAC-AA0A	prototyping board with 10MP (4-lane MIPI) image sensor
rigid modules with image sensor with 40-pin Panasonic connector (use with OV00000-EG00-0049 only)	

part number	description
rigid modules with image sensor (for use with OV00000-EG00-0029 only)	
OV07695-MRFS-FA00	VGA fixed focus rigid module in standard size, Sunny lens F/2.8
OV09724-MRSB-24-F000	720p HD fixed focus module standard 40-pin Hirose connector
OV09728-MRSB-24-F000	720p HD fixed focus module standard 40-pin Hirose connector
OV09714-MRSB-F000	720p HD fixed focus rigid module, Kinko lens, standard 40-pin Hirose connector
OV09772-MYBB-FA00	720p HD fixed focus rigid module, MIPI interface and New Max lens
OV09760-MBSL-F000	1.2MP BSI2 standard flex module with COB sensor, MIPI/DVP interface
OV02724-MYDB-FA00	1080p HD fixed focus module using F/2.4 Kinko lens (2-lane MIPI)
OV05645-MRSB-28-AB0T	5MP auto focus rigid module using F/2.8 Kinko lens
OV05648-MRFB-AB0T	5MP auto focus rigid module using F/2.8 Kinko lens
OV05693-MYSL-22-A00T	rev 2B/C rigid auto focus module using Largan (9545A1) and TDK VCM (603ACK)
OV05693-MYSL-22-A03T	rev 3A rigid auto focus module using Largan lens and TDK VCM using (5.05 mm)
OV05693-MYDL-AA3T	rev 3A rigid auto focus module using Largan lens and TDK VCM (4.2 mm)
OV05650-MYSL-A00U	5MP auto focus module using Largan lens and TDK (VCM)
OV05656-MRFB-AA0W	5MP auto focus rigid module using F/2.8 Kinko lens, MWT (VCM)
OV05656-MYCL-AA0T	5MP auto focus rigid module using F/2.2 Largan lens, TDK (VCM)
OV05680-MYSL-22-A00T	5MP auto focus rigid module using F/2.2 Largan lens, TDK (VCM)
OV08850-MYSL-A03T	rev 3A rigid auto focus module using Largan F2.2 lens and TDK VCM
OV08850-MYDL-AA3T	rev 3A rigid auto focus module 4.2 mm high using Largan F2.4 lens and TDK VCM
OV08825-MYSL-24-A00T	rigid module with 8MP F/2.4 (4-lane MIPI) image sensor
OV08835-MYSL-22-A00T	rigid module with 8MP F/2.2 (4-lane MIPI) image sensor
OV08865-MYCL-A00T	rigid module with 8MP F/2.2 (4-lane MIPI) image sensor
OV12830-MYCL-A00T	12MP auto focus rigid module using F/2.2 lens (4-lane MIPI)
OV13850-MYCK-A00M	13MP auto focus rigid module using F/2.2 lens (4-lane MIPI)
OV14825-MYBL-A00T	14MP auto focus rigid module using F/2.4 lens (4-lane MIPI)
prototyping boards with image sensor (for use with OV00000-EG00-0062 only)	
OV16825-MYDL-AA0H	16MP auto focus rigid module using F/2.4 lens (8-lane MIPI)
prototyping boards with image sensor (for use with OV00000-EG00-0030 only)	
OV10810-EAAA-AA0A	prototyping board with 10MP (8-lane MIPI) image sensor
OV16820-EAAC-AA0A	prototyping board with 16MP (8-lane MIPI) image sensor
bare transfer/adaptor boards (non assembled, unpopulated)	
OV00000-EG00-0034	bare board for OV00000-EG00-0028 (3 pcs)
OV00000-EG00-0035	bare board for OV00000-EG00-0029 (3 pcs)
OV00000-EG00-0036	bare board for OV00000-EG00-0030 (3 pcs)
OV00000-EG00-0037	bare board for OV00000-EG00-0031 (3 pcs)

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