

iPORT Analog-Pro External Frame Grabbers

Preserve investments in existing cameras and optics, while converting to fully digital video connectivity



Overview

Pleora's **iPORT™ Analog-Pro External Frame Grabbers** allow designers to treat analog cameras as native GigE Vision® cameras. With these external frame grabbers, analog cameras enjoy the long-distance reach of Gigabit Ethernet (GigE) for both video and remote control, and can be mixed with native GigE Vision cameras in networked environments.

Compact and simple to integrate, Analog-Pro External Frame Grabbers can transmit two channels of composite (NTSC, PAL, CCIR, or RS-170) video simultaneously at up to 30 frames per second (fps) at up to 1 Gbps each with low, predictable latency over a GigE link. GigE supports cabling distances of up to 100 meters using standard CAT5e/6 cabling. With off-the-shelf Ethernet switches, distances can be unlimited.

The connection at the computing platform is a standard GigE port, allowing designers to reduce system size, cost, and power consumption by using smaller form factor computing platforms, such as laptops, embedded PCs, and single-board computers.

The Analog-Pro is supported by Pleora's feature-rich eBUS™ SDK application tool kit, which allows designers to develop and modify production-ready software applications while avoiding supporting multiple APIs from different vendors.

Features

- Preserve investments in existing analog cameras and optics, while converting to fully digital video connectivity to leverage cabling and networking advantages
- Highly reliable 1 Gbps data transfer rate of two independent channels of analog composite video over Gigabit Ethernet with low, consistent latency
- Built-in de-interlacing algorithms
- Supports square pixels
- RS-232 and GPIO to control external accessories
- Available as enclosed units and OEM board sets

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Networked Video Connectivity Solutions		Connectors																								
iPORT™ External Frame Grabbers	<ul style="list-style-type: none"> Highly reliable; up to 1 Gb/s data transfer rate with low, end-to-end latency OEM board set or enclosed unit 32MB image buffer 4 TTL inputs, 3 TTL outputs (4th TTL output available with customer-supplied connector); software-controllable 2 RS-232 serial ports 	<table border="1"> <tr> <td>Power</td><td>Enclosed: Hirose 6-pin OEM: 2-pin, 0.10" header</td></tr> <tr> <td>Network</td><td>RJ-45 female</td></tr> <tr> <td>Video interface</td><td>2 x BNC female</td></tr> <tr> <td>Serial and GPIO</td><td>12-pin circular</td></tr> </table>		Power	Enclosed: Hirose 6-pin OEM: 2-pin, 0.10" header	Network	RJ-45 female	Video interface	2 x BNC female	Serial and GPIO	12-pin circular															
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eBUS SDK	<ul style="list-style-type: none"> eBUS SDK: Single API to receive video over GigE, 10 GigE, and USB that is portable across Windows, Mac, and Linux eBUS Tx: Software implementation of a full device level GigE Vision transmitter eBUS Rx: High-speed reception of images or data for hand-off to the end application eBUS Player Toolkit: View streams and develop, test and evaluate advanced features 	<table border="1"> <tr> <td>Size (L x W x H)</td><td>Enclosed: 113mm x 82mm x 51mm OEM: 105 mm x 52 mm x 42 mm</td></tr> <tr> <td>Operating temperature</td><td>0°C to 40°C (OEM higher with thermal pad)</td></tr> <tr> <td>Storage temperature</td><td>-40°C to 85°C</td></tr> <tr> <td>Power Supply</td><td>5 VDC to 13 VDC</td></tr> <tr> <td>Power Consumption</td><td>Maximum 4W (with both channels in use)</td></tr> <tr> <td>MTBF at 40°C</td><td>915,936 hours</td></tr> <tr> <td>ECCN</td><td>EAR99</td></tr> </table>		Size (L x W x H)	Enclosed: 113mm x 82mm x 51mm OEM: 105 mm x 52 mm x 42 mm	Operating temperature	0°C to 40°C (OEM higher with thermal pad)	Storage temperature	-40°C to 85°C	Power Supply	5 VDC to 13 VDC	Power Consumption	Maximum 4W (with both channels in use)	MTBF at 40°C	915,936 hours	ECCN	EAR99									
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GigE Vision® and GenICam™	<ul style="list-style-type: none"> Fully-compatible firmware load Guarantees delivery of all packets Comprehensive data transfer diagnostics 	<table border="1"> <tr> <td colspan="2">Video Formats</td></tr> <tr> <td>Video standards</td><td>NTSC, PAL, CCIR, RS-170</td></tr> <tr> <td>Pixel formats</td><td>8-bit monochrome, YUV4:2:2 (packed)</td></tr> <tr> <td>Deinterlacing Support</td><td> <ul style="list-style-type: none"> Off Weave Line duplication </td></tr> <tr> <td colspan="2">Features</td></tr> <tr> <td>Gigabit Ethernet-based</td><td> <ul style="list-style-type: none"> Low-cost, easy-to-use equipment Compatible with 10/100/1000 Mb/s Ethernet networks Supports IEEE 802.3 (Ethernet), IP, IGMP v.2, UDP and ICMP (ping) Long reach: 100 m point-to-point, unlimited distance with Ethernet switches </td></tr> <tr> <td>Multicast capability</td><td>Enables advanced distributed processing and control architectures</td></tr> <tr> <td colspan="2">Ordering Information</td></tr> <tr> <td>900-6207</td><td>iPORT Analog-Pro OEM Kit. Analog-Pro OEM board set assembled on a carrier bracket*, GPIO board assembly with flat-flex cable, and unsoldered 12-pin circular connector.</td></tr> <tr> <td>900-6209</td><td>iPORT Analog-Pro Enclosed. Analog-Pro in mountable enclosure.</td></tr> <tr> <td>900-6208</td><td>iPORT Analog-Pro Development Kit. Includes 900-6209, power supply, Gigabit Ethernet desktop NIC, Ethernet cable, and eBUS SDK USB stick.</td></tr> <tr> <td>900-6215</td><td>iPORT Analog-Pro SD Developer Bundle. Includes iPORT Analog-Pro SD Enclosed External Frame Grabber (900-6209), power supply, Gigabit Ethernet desktop NIC, Ethernet cable, eBUS SDK USB stick, and one year of eBUS SDK Developer Annual Maintenance and Support.</td></tr> </table>	Video Formats		Video standards	NTSC, PAL, CCIR, RS-170	Pixel formats	8-bit monochrome, YUV4:2:2 (packed)	Deinterlacing Support	<ul style="list-style-type: none"> Off Weave Line duplication 	Features		Gigabit Ethernet-based	<ul style="list-style-type: none"> Low-cost, easy-to-use equipment Compatible with 10/100/1000 Mb/s Ethernet networks Supports IEEE 802.3 (Ethernet), IP, IGMP v.2, UDP and ICMP (ping) Long reach: 100 m point-to-point, unlimited distance with Ethernet switches 	Multicast capability	Enables advanced distributed processing and control architectures	Ordering Information		900-6207	iPORT Analog-Pro OEM Kit. Analog-Pro OEM board set assembled on a carrier bracket*, GPIO board assembly with flat-flex cable, and unsoldered 12-pin circular connector.	900-6209	iPORT Analog-Pro Enclosed. Analog-Pro in mountable enclosure.	900-6208	iPORT Analog-Pro Development Kit. Includes 900-6209, power supply, Gigabit Ethernet desktop NIC, Ethernet cable, and eBUS SDK USB stick.	900-6215	iPORT Analog-Pro SD Developer Bundle. Includes iPORT Analog-Pro SD Enclosed External Frame Grabber (900-6209), power supply, Gigabit Ethernet desktop NIC, Ethernet cable, eBUS SDK USB stick, and one year of eBUS SDK Developer Annual Maintenance and Support.
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* Contains assembly # 900-6206 which is not an orderable part number.

