Network your camera blocks from Sony with high-performance IP engines

## **Applications**

- · Military vetronics systems
- Medical imaging systems
- · Intelligent traffic systems
- · Industrial inspection systems

#### **Features**

- Transforms a block camera from Sony into a GigE Vision® and GeniCam™ compliant camera
- High-performance, up to 1080i at 30fps
- Video and camera control using a single cable
- Sony® VISCA™ camera control via GenlCam interface
- · Low, consistent latency

## Compatibility

- Sony FCB-H11
- Sony FCB-EX E Series (coming soon)
- Sony FCB-EH Series (coming soon)





Transform camera blocks from Sony into GigE Vision® compliant cameras with Pleora's iPORT™ SB-Pro IP engines. Compact and simple to integrate, iPORT SB-Pro IP engines transmit high-definition video with low, predictable latency. Complete with feature control using the GenICam™ standard, these products are ideal for systems integrators looking to differentiate their offerings, increase interoperability, and introduce networking capabilities.

iPORT SB-Pro IP engines leverage the open GigE Vision and GenlCam standards for communication over a Gigabit Ethernet link, which increases interoperability between products from different manufacturers, while dramatically lowering system cost and complexity. With Gigabit Ethernet, cabling distances of up to 100m can be achieved using standard CAT5/6 cabling; by incorporating common, off-the-shelf switches, distances can be unlimited. Decreased cable size, increased flexibility, and a tighter cable bend radius are additional benefits gained when using Gigabit Ethernet for video transfer.

SB-Pro IP engines abstract the Sony® VISCA™ protocol into an industry-standard GenlCam interface over Ethernet. With video and control

signals existing on a single cable, system cost and complexity can be further decreased. GenlCam compliant off-the-shelf software packages can be used to control the camera's zoom, focus, exposure settings, and more — without modification.

Able to transmit video at up to 1080i resolution at up to 30 frames per second with low, consistent latency, SB-Pro IP engines are available as compact, low-power OEM board sets designed for use in a variety of housings.

SB-Pro IP engines are built with connectors for power, general purpose inputs and outputs (GPIO) and serial communication, which allows for a simple connection to a block camera from Sony.

Compatible with Pleora's vDisplay™ video receivers, as well as Pleora's feature-rich application toolkit eBUS™ SDK, the iPORT SB-Pro enables the Sony family of block cameras to become part of complete networked video connectivity solution.



# **iPORT**<sup>™</sup> **SB-Pro IP Engines**

## **Networked Video Connectivity Solutions**

iPORT IP Engine	Highly reliable, 1 Gb/s data transfer rate with low, end-to-end latency OEM, in-camera board
eBUS SDK	<ul> <li>eBUS Universal Pro driver</li> <li>Sample applications including NetCommand, a demonstration of multi-device network connectivity</li> <li>Driver installation tool</li> <li>Documentation</li> </ul>
GigE Vision	<ul><li>Fully-compliant firmware load</li><li>Guarantees delivery of all packets</li><li>Comprehensive data transfer diagnostics</li></ul>

#### **Video Formats**

Video acquisition	Digital video interface (model-dependent)
Input resolutions	• 1920x1080i, 1440x1080i, 1280x720p, at up to 50 or 59.94Hz
Pixel formats	· Mono8, YUV 4:2:2
Deinterlacing support	Weave and line duplication

# Compatibility

Block Cameras	Sony FCB-H11
	Sony FCB-EX E Series (coming soon)
	Sony FCB-EH Series (coming soon)

## **Connectors**

Power	12-pin Hirose connector for serial communication, GPIO, and power
Network	• RJ-45
Video interface	Sony block camera (cable optionally included)     Power and command interface to Sony block camera (cable optionally included)

## **Networking Features**

Gigabit Ethernet- based	Low-cost, easy-to-use equipment     Compatible with 10/100/1000 Mb/s IP/ Ethernet networks     Supports IEEE 802.3 (Ethernet), IP, IGMP v.2, UDP and ICMP (ping)     Long reach: 100 m point-to-point, further with Ethernet switches
Multicast capability	Enables advanced distributed processing and control architectures

#### **Characteristics**

Size	• 25 mm X 42 mm X 69 mm (height X width X length of board set in brackets)
Operating temperature	• 0°C - 55°C
Power supply	• 6V - 12V
Power consumption	• 6.6 W (Typical, including block camera)