

PHIRE-S™ Single Fiber Series

KEY FEATURES

- ❖ Single fiber bi-directional data transmission
- ❖ Optional SC or LC optical connector
- ❖ Fully supports base Camera Link™ cameras/frame grabbers
- ❖ Direct plug – no electrical cable needed
- ❖ Broad bandwidth – up to 2.5 Gb/s supporting 24 bits image data at 85 MHz pixel clock
- ❖ Transparent operation – plug and play with no changes required for camera and/or frame grabber
- ❖ Single 5V~16V DC power supply
- ❖ Exchangeable optical module – easy to upgrade
- ❖ Estimated transmission distance - up to 500 m for 50/125 μm MM fiber and 10 km for SM fiber
- ❖ **Compact size – 59L x 42W x 17H mm (2.326L x 1.638W x 0.669H inch)**

TARGET APPLICATIONS

- ❖ Product inspection
- ❖ Sports Arena
- ❖ Flat panel display inspection
- ❖ Railroad/surface road inspection
- ❖ Traffic surveillance/control
- ❖ Military and defense tests
- ❖ Medical imaging
- ❖ Cameras placed in harsh environment
- ❖ Scientific test and measurement
- ❖ Bar code reading and sorting
- ❖ High precision security surveillance
- ❖ 3D animation imaging and production

PHRONTIER™
TECHNOLOGIES

PHIRE-S™ Camera Link Single Fiber Adapter

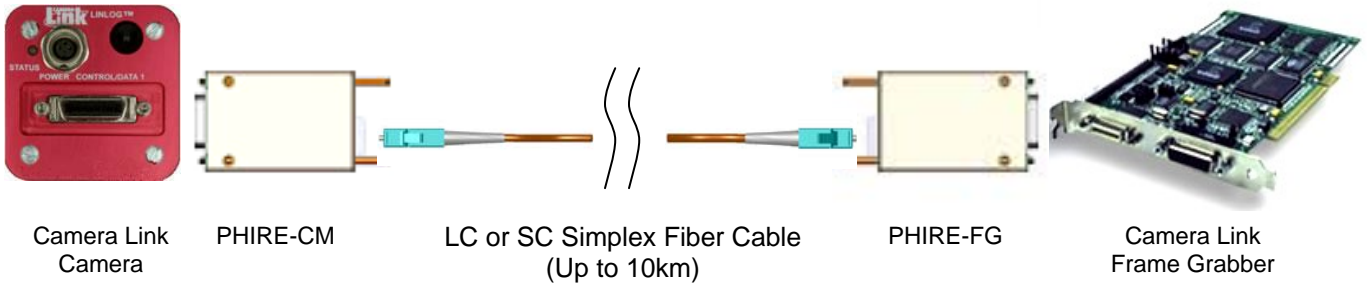
Base Configuration

PHS-68-M50/S10
PHS-85-M50/S10
PHS-85-M25
PHL-68-M50/S10
PHL-85-M50/S10
PHL-85-S07



Phrontier Technologies, LLC
www.phrontier-tech.com
sales@phrontier-tech.com
Toll Free: 1-866-389-2829
Fax: 1-801-998-1855

TYPICAL SET UP DIAGRAM



TECHNICAL SPECIFICATIONS

General Specification

Operating Temperature	0 ~ 60 °C (case temperature)
Input Voltage	DC 5 ~ 16 V
Supply Current	200 mA @12V each module
Typical Power Consumption	2.4 W each module
Connector Type	Hirose MQ172X-4PA
Approx. Weight (each module)	75 gram

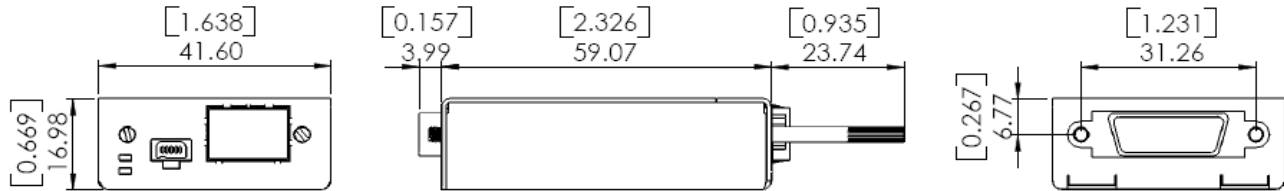
Camera Link Interface (x = S for SC simplex or L for LC simplex)

	PHx-68-M50 PHx-68-S10	PHx-85-M50 PHx-85-S10	PHL-85-M25 PHL-85-S07
Max Pixel Clock	68 MHz	85 MHz	85 MHz
Max Image Data Width	24 bits	16 bits	24 bits
Transport Bandwidth	2 Gb/s	2 Gb/s	2.5 Gb/s
Connector Type	MDR26 plug		

Optical Interface (x = S for SC simplex or L for LC simplex)

	PHx-68-M50 PHx-85-M50	PHx-68-S10 PHx-85-S10	PHS-85-M25	PHL-85-S07
Operating Wavelength	1310nm (CM) 1550nm (FG)	1310nm (CM) 1550nm (FG)	1310nm (CM) 1550nm (FG)	1310nm (CM) 1490nm (FG)
Min Optical Tx Output Power	-3 ~ -9 dBm	-3 ~ -10 dBm	-3 ~ -10 dBm	-3 ~ -8 dBm
Min Optical Rx Power	-15 dBm	-18 dBm	-18 dBm	-18 dBm
Connector Type	SC or LC simplex		SC simplex	LC simplex
Fiber Type	50/125 μm or 62.5/125 μm MM fibers	9/125 μm SM fibers	50/125 μm or 62.5/125 μm MM fibers	9/125 μm SM fibers

MECHANICAL INFORMATION (mm [inch])



ORDERING INFORMATION

Model #	Data Width	Max Pixel Clock Rate	Transport Distance*	Connector	Items Provided
PHS-68-M50	24 bit	68 MHz	500 m	SC	1x PHIRE-CM (transmitter) 1x PHIRE-FG (receiver) 2x 12V DC output international wall mount AC/DC power adapters with snap locking plug (Fiber cable not included)
PHS-85-M50	16 bit	85 MHz	500 m	SC	
PHS-85-M25	24 bit	85 MHz	250 m	SC	
PHS-68-S10	24 bit	68 MHz	10 km	SC	
PHS-85-S10	16 bit	85 MHz	10 km	SC	
PHL-68-M50	24 bit	68 MHz	500 m	LC	
PHL-85-M50	16 bit	85 MHz	500 m	LC	
PHL-68-S10	24 bit	68 MHz	10 km	LC	
PHL-85-S10	16 bit	85 MHz	10 km	LC	
PHL-85-S07	24 bit	85 MHz	7 km	LC	

* Distance depending on fiber type and system design. Transmission distance above is estimated minimum distance for 50/125 MM fiber and 9/125 SM fiber. Extra optical losses in the system will reduce the transmission distance.



www.phrontier-tech.com

sales@phrontier-tech.com

Toll Free: 1-866-389-2829

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