

KEY FEATURES

- ❖ Fully supports CoaXPress standard with high speed downlink and low speed uplink
- ❖ Supports all high speed bit rates – 1.25G, 2.5G, 3.125G, 5G, 6.25Gb/s, 10Gb/s and 12.5Gb/s
- ❖ Supports PoCXP function to supply power to camera and receive power from grabber
- ❖ Transparent operation – plug and play with no configuration required
- ❖ Extends link distance up to 10km or longer if needed
- ❖ Standard Micro-BNC connector
- ❖ Standard LC duplex or LC simplex fiber interface fiber interface connection
- ❖ Available with extended operating temperature
- ❖ Accepts wide range of DC input 10V~24V DC
- ❖ Power connector with secure locking mechanism
- ❖ LED indicators for operating status
- ❖ Compact size – 72L x 62W x 19H mm

TARGET APPLICATIONS

- ❖ Solar panel or glass panel inspection
- ❖ Semiconductor wafer inspection
- ❖ High speed printing inspection
- ❖ High precision surface inspection (e.g. airplane surface or automobile painting)
- ❖ Automated product inspection (e.g. food, drinking or pharmaceutical products)
- ❖ High resolution and real-time analysis for science, sports, automobile tests, and 3-D animation.
- ❖ High precision security surveillance (e.g. border control, airport)
- ❖ Traffic surveillance/control and vehicle license plate reading/recording (e.g. toll booth)
- ❖ Cameras placed in harsh environment (e.g. nuclear plant, steel mill or undersea monitoring) Other machine vision applications

PHRONTIER™
TECHNOLOGIES

PHORTE™

Single Channel CoaXPress 2.0 Fiber Extender

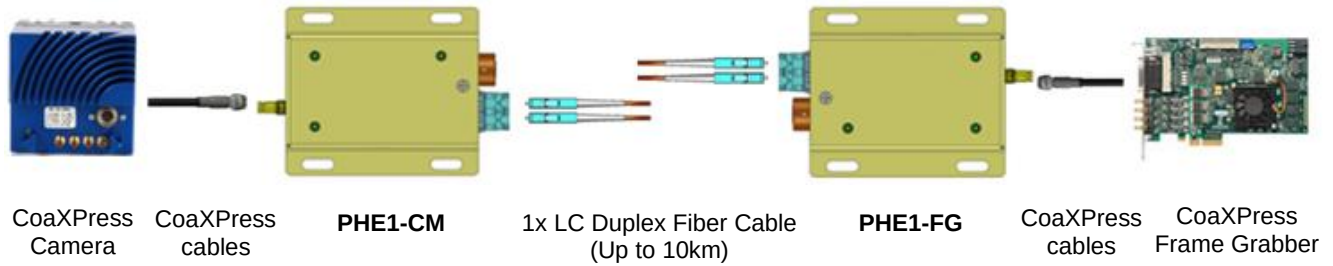
PHE1-x



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TYPICAL SET UP DIAGRAM

PHE1 with 1ch CXP system



PHE1 TECHNICAL SPECIFICATIONS

General Specification – PHE1

Storage Temperature		-40 ~ 85 °C
Standard Operating Temperature Without PoCXP	Ambient	0 ~ 50 °C
	Case	0 ~ 65 °C
Operating Humidity		20 ~ 80% (non-condensing)
Input Voltage		DC 10 ~ 24 V
Typical Supply Current Per Module @24V ^{*1}		0.062 A
Typical Power Consumption Per Module ^{*1}		1.5 W
Power Connector on Module		Binder 09-0982-00-04
Approx. Weight (each module)		67 gram

^{*1} Measurements are done with PHE1-M @ 25C and PoCXP is switched off.

CoaXPress Interface – PHE1

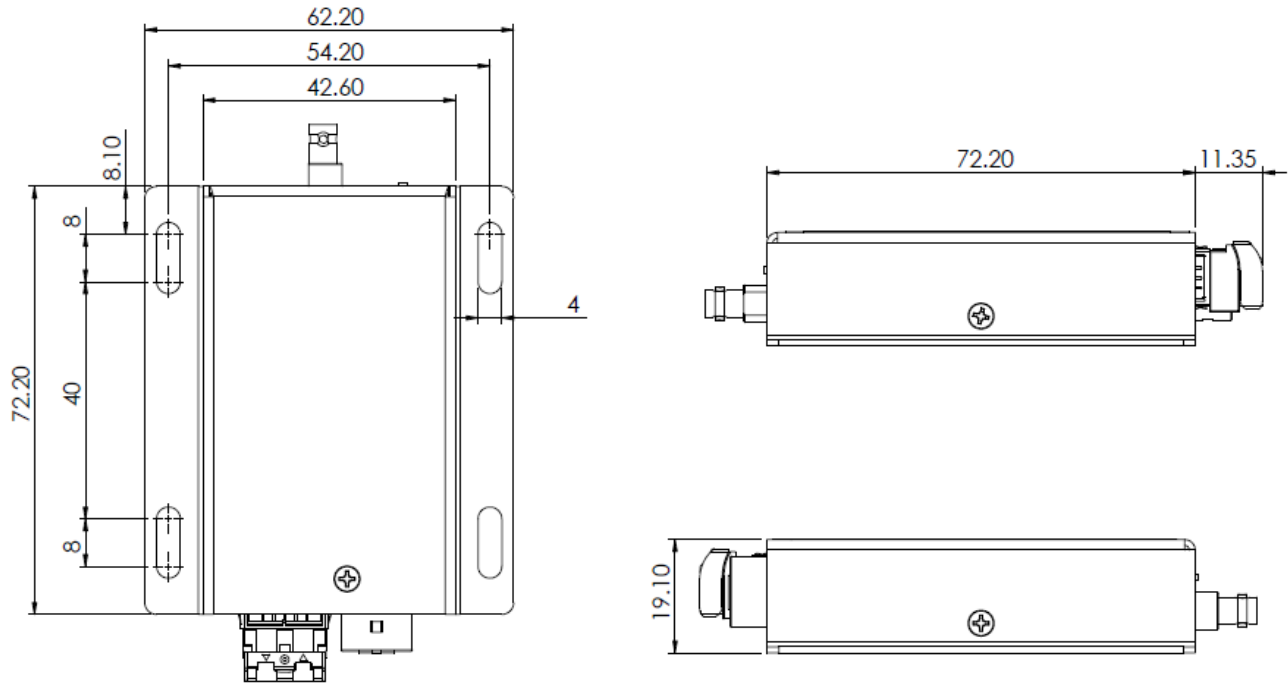
Downlink Data Rate	CXP-1, CXP-2, CXP-3, CXP-5, CXP-6, CXP-10, CXP-12
Uplink Data Rate	20.83 Mb/s, 41.67Mb/s
Connector	Micro-BNC
PoCXP Output Voltage	24 V
PoCXP Supply Power	17W/Ch

Optical Interface – PHE1

	PHE1-M	PHE1-S	PHE1-B
Operating Wavelength	850nm	1310nm	CM Tx: 1270nm FG Tx: 1330nm
Min Optical Tx Output Power ^{*2}	-5 dBm	-7 dBm	-7 dBm
Min Optical Rx Power ^{*2}	-10.3 dBm	-12 dBm	-12 dBm
Max Optical Rx Input Power ^{*2}	2.4 dBm	2.5 dBm	2.5 dBm
Connector Type	LC duplex	LC duplex	LC simplex
Fiber Type	MM	SM	SM

^{*2} Optical power is measured in average power. More optical power options are available upon requests

PHE1-x MECHANICAL INFORMATION (mm [inch])



ORDERING INFORMATION

PHE1 Standard models

Model #	Fiber Type & Estimated Link Distance *		Fiber count	Items Provided
PHE1-M	OM3 MM	100 m (1000 ft)	2	1x PHORTE-CM 1x PHORTE-FG 1x 24W, DC 24V international wall mount AC/DC adapter (fiber cable not included)
PHE1-S	SM	10 km (6.25 mile)	2	
PHE1-B	SM	10 km (6.25 mile)	1	

* Distance depending on fiber type and system design. Extra optical losses in the system will reduce the transmission distance. Longer link distance is available upon request.

Accessory

Part #	Description
618-NGE30I24-BD	24W, DC 24V international wall mount AC/DC adapter with Binder plug
618-VES90-BD	90W, DC 24V international wall mount AC/DC adapter with Binder plug
X12-UB-1-UB-01	1 meter uBNC-to-uBNC, Belden 4855R 12GHz coaxial cables.
X12-UB-1-UB-03	3 meter uBNC-to-uBNC, Belden 4855R 12GHz coaxial cables.

PHORTE Series

X6-UB-2-SC-01	1 meter uBNC-to-DIN 1.0/2.3 screw type, Belden 1855A 6GHz coaxial cables.
X6-UB-2-SC-03	3 meter uBNC-to-DIN 1.0/2.3 screw type, Belden 1855A 6GHz coaxial cables.
LC-LC-M4-D-xxM	LC to LC duplex 50/125 μ m OM4 MM fiber. xx = desired length in meters.
LC-LC-M4-S-xxM	LC to LC simplex 50/125 μ m OM4 MM fiber. xx = desired length in meters.
LC-LC-S-D-xxM	LC to LC duplex 9/125 SM fiber. xx = desired length in meters.
LC-LC-S-S-xxM	LC to LC simplex 9/125 SM fiber. xx = desired length in meters.



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