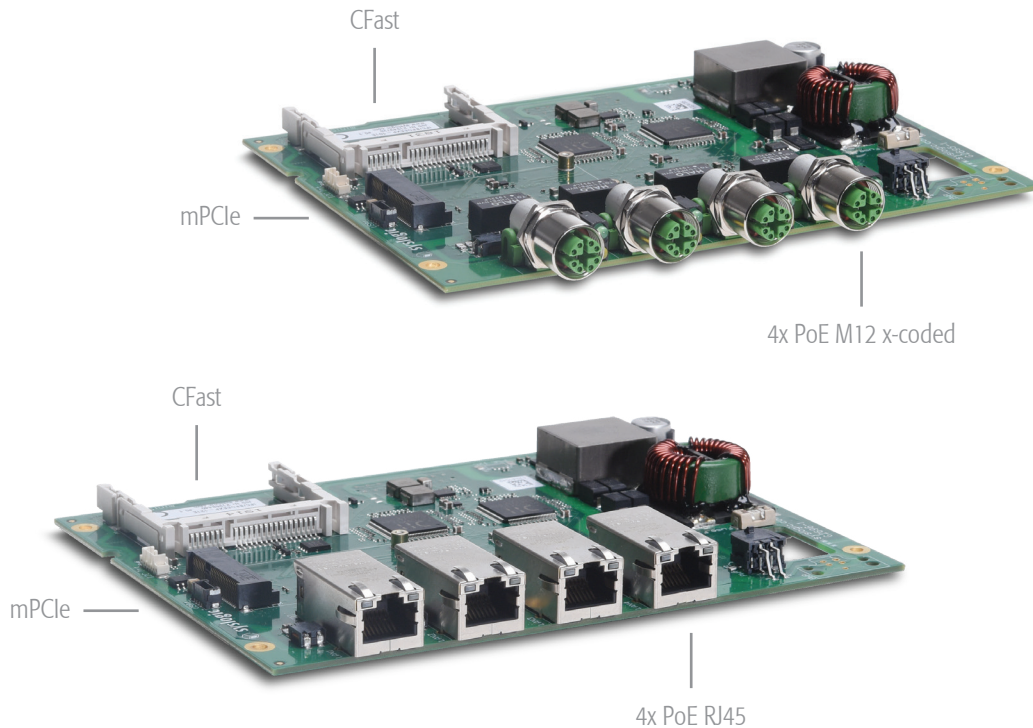


## IPC/POE Series

Industrial PoE (Power over Ethernet) Board



## IPC/POE Series

The IPC/POE Series adds Power over Ethernet (PoE) to Syslogic embedded products. This enables rapid integration into existing products for a fast time to market. The board also includes a CFast header for additional storage as well as a mini PCIe slot for additional expansion possibilities.

- 4 channel PoE+ IEEE802.3at, 48VDC out
- Extended temperature range
- 24/7 continuous operation
- Shock- and vibration resistant



### Product Highlights

Internally powered by Syslogic host system, no external power source required for PoE PD's  
Four full bandwidth GbE ports, each with a dedicated NIC  
Shock- and vibration resistant  
Operating temperature -40°C to +85°C  
Industrial electronics design  
Long term availability

### Product Features

4x Gbit PoE+  
mPCIe slot  
miniSIM slot  
CFast slot  
M12 x-coded or RJ45 ports

### Markets / Applications

Automated Guided Vehicles (AGV)  
Agriculture  
Railway  
Transportation  
Industrial automation

Order Code IPC/BPOEEXP-101E <sup>1</sup> IPC/BPOEEXP-121E <sup>1</sup>**Power over Ethernet**

Full bandwidth Gbit Ethernet PoE+ IEEE802.3at with 4 dedicated NIC's (Intel I210-IT) PSE - Power sourcing equipment, producing 48VDC out for PoE powered devices (PD)	4 (M12-x)	4 (RJ45)
Total max Power draw at PSEs/PDs <sup>4</sup>	45W/39W	45W/39W

**Communication Interfaces**

Regular unpowered (full bandwidth) Gbit Ethernet with 4 dedicated NIC's (Intel I210-IT) <sup>instead of PoE+</sup>	on request	on request
CFast socket <sup>5</sup>	1	1
Mini PCIe socket	1	1
miniSIM slot (to mPCIe socket)	1	1
USB 2.0 interface (for additional Syslogic I/O extensions) <sup>2</sup>	1	1
I2C interface (for additional Syslogic I/O extensions) <sup>2</sup>	1	1

**Technical Data**

Dimensions [mm]	w160x d121.5 x h20	w160x d121.5 x h20
Net weight [gram]	200	200
Input voltage range, non-isolated (gets power internally from mainboard)	9 ... 45VDC	9 ... 45VDC
Idle power consumption typ. in Watt @ 24V	1	1

**Software support**

NVIDIA Linux 4 Tegra, ARM64 (NVIDIA Jetson based products)	•	•
Linux x86, Kernel 4.9 or higher	•	•
Windows 10 IoT	•	•
Windows Embedded Standard 7	•	•

**Environmental Conditions**

Operating temperature ambient (component level) <sup>3</sup>	-40°C to +85°C	-40°C to +85°C
Storage temperature	-40°C to +85°C	-40°C to +85°C
Conformal coating	optional	optional
Shock: designed to meet EN60068-2-27	•	•
Vibration: designed to meet EN60068-2-6	•	•
EMI conformity EN55032/55035/EN-50121-3-2	•	•
Designed to meet agriculture EMI conformity ISO14982	•	•

<sup>1</sup> Please contact factory for minimum order quantities<sup>2</sup> on internal connector | Mating plug type: Molex Pico-Blade 51021-0400 with AWG26 contacts 50079-8100<sup>3</sup> Depending on host system, installation situation and interface connection. Please see user documentation.<sup>4</sup> Derating may apply, depending on host system<sup>5</sup> Requires SATA support on expansion connector of host system

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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industrial computing