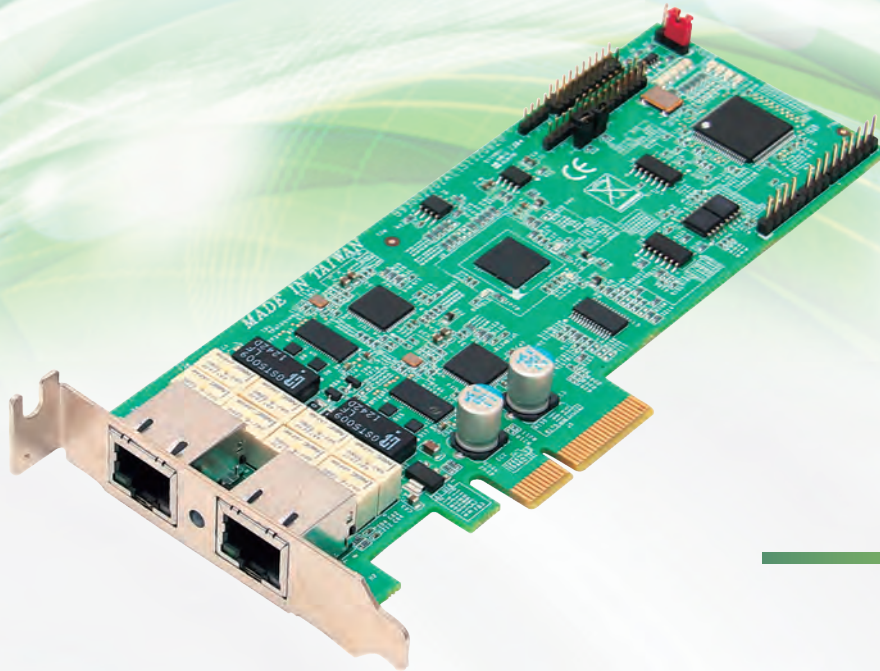


# BPC-51120

## The New Generation Low Profile Network Bypass Adapter Copper 1GbE Dual Ports



### Advanced Intel i210 AVB Bypass Card

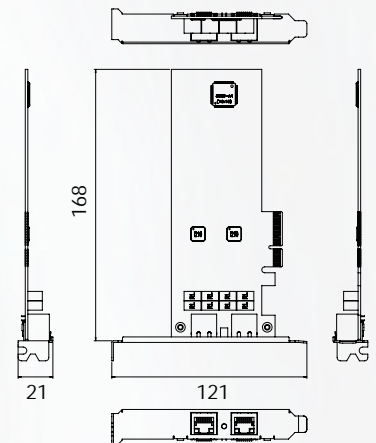
Portwell BPC-51120 leverages Intel i210 (Springville) Ethernet controller, fully compliant with 1000base-T, Portwell BPC-51120 provides Audio Video Bridging (AVB) support with power management technologies; Energy-Efficient Ethernet (EEE) and direct memory access (DMA); IEEE 1588 precision time protocol circuitry synchronizes. It delivers high-bandwidth and industry-leading Ethernet connectivity for performance-driven server and storage applications in Enterprise Data Centers in High-Performance Computing, and Embedded environments.

### Portwell New Generation Bypass Function

Portwell BPC-51120 provides a completed intrusion prevention solution by Portwell Generation 3.0 Bypass function which supports three different bypass mode (Normal Mode, Bypass Mode, and Open Mode) when system crashing or power failing.

### 10GBASE-T Intelligent Bypass Module

Portwell BPC-51120 provide two 1000Base-T intelligent PCIe Gen 2.0 network interface with low profile board size, fully compatible with all 2U, 1U and Server appliances. Unique hardware design, can easily install into any Portwell 's appliances.



## Key Features

- 1 Gb/s Ethernet IEEE 802.3, 802.3u, 802.3ab PHY specifications compliant
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 1588 Precision Clock Synchronization
- Jumbo frame support (9.6KB)
- Audio-Video Bridging (AVB) Support (802.1Qav)
- 2 Transmit and 2 Receive queues
- ECC – Error Correcting Memory in Packet buffers
- RDMA over Converged Ethernet
- TCP/UDP/IP stateless offload
- Remote boot over Ethernet
- Remote boot over Ethernet & remote boot over iSCSI

## Hardware specification

<b>BPC-51120</b>	
<b>OS Support</b>	Linux 2.4, 2.6 , FreeBSD
<b>Interface</b>	Generation 2.1 (2.5GT/s) PCI Express x4PCle x 1 through PCI x4 golden finger
<b>Dimension (W x D x H)</b>	Low Profile, half length 168.15mm x 68.9mm
<b>LAN Controller</b>	Intel i210
<b>Miscellaneous</b>	Low-profile bracket, full-height bracket
<b>H/W Selection</b>	Selection of normal or bypass model when power on Built-in watchdog timer bypass Ethernet ports when host system experiences hang or power failure
<b>S/W Programmable</b>	WDT Time-out Setting (software programmable from 1~255 Seconds)
<b>IEEE Compliant</b>	IEEE 802.3
<b>Ethernet of Ports</b>	Dual Copper 1GbE Ethernet ports
<b>Operating Environment</b>	Temp : 0 to 40°C (32 to 104 °F) 20 ~ 90% RH
<b>Certification</b>	UL, FCC, CE
<b>Launch Date</b>	May. 2013

## Ordering Guide

Model	Part Number	Description
BPC-51120	AI3-3383	BPC-51120 .NIC. Intel I210AT + PEX8603 . PCI-Ex4 Gen3. Dual 1000 Base-T Ports