PCIE-2201E

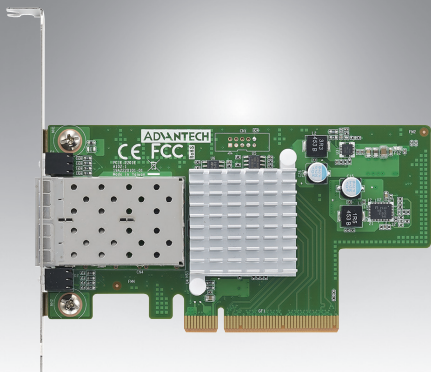## Dual Port Fiber 10G Ethernet PCI Express Server Adapter with Intel® 82599ES

Preliminary

Features

- 1 x Intel 82599ES 10GbE Ethernet controller
- 2 x 10GbE SFP+ ports
- PCIex8 Gen2 host interface
- Support 10G base-SR and 10G base LR
- Supports SR-IOV based virtualization
- Low profile and full height form factors

RoHS COMPLIANT 2002/95/EC CE FCC

Introduction

Advantech's PCIE-2201E is a low-profile dual port 10GE Ethernet PCI Express server adapter based on Intel's 82599ES controller. By supporting a PCI-Express Gen2 x8 host interface, this adapter provides sufficient bandwidth for line rate traffic on both 10GE ports. Two SFP+ ports can be configured to support a variety of optical transceivers such as 10GE Base-SR or 10GE Base-LR optical modules as well as direct attach cables. Improved support for virtualization – including, but not limited to – VMDq, SR-IOV make the PCIE-2201E a perfect fit for virtualized environments and applications with network overlays. PCIE-2201E is an ideal network interface solution for multi-tenant environments, Network Function Virtualization but also networking applications such as WAN optimization, network and cyber security.

Specifications

Controller		Intel 82599ES MAC+PHY
	Physical Functions	2
	Virtual Functions	64
	Virtualization Support	VMDq, SRIOV
Host Interface	PCI Express	8 lanes Gen2
Network Interfaces	Ports	2 SFP+ cages
	Media	10G-SR, LR, ER, Base-T transceivers, Direct Attach cables
	LEDs (per port)	Link/Act LED (Green) Speed: 10G (Green), 1G (Amber)
Software support	Operating Systems	RedHat, CentOS Linux (Windows Server and FreeBSD under investigation)
	Virtualization	KVM (VMWare under investigation)
Power consumption	+12V	8W typ./ 12W max. (estimated) (including 2 10G-SR transceivers)
Environment	Operating Humidity	0 ~ 90%, non-condensing
	Operating Temperature	0 ~ 45° C (32 ~ 113° F)
	Storage	-40 ~ 65° C (-40 ~ 149° F)
Mechanical Specifications	Board Dimension	167 x 68.9mm (PCIe low profile)
	Holder	Full height and half height options available
Compliance	EMC Certifications	FCC CE Class A

Please contact your Advantech representative of a list of sample order numbers.

Ordering Information

Part Number	Description
PCIE-2201E	Dual Port Fiber 10G Ethernet PCI Express Server Adapter with Intel® 82599ES

Please contact your Advantech representative of a list of supported and validated transceiver modules.