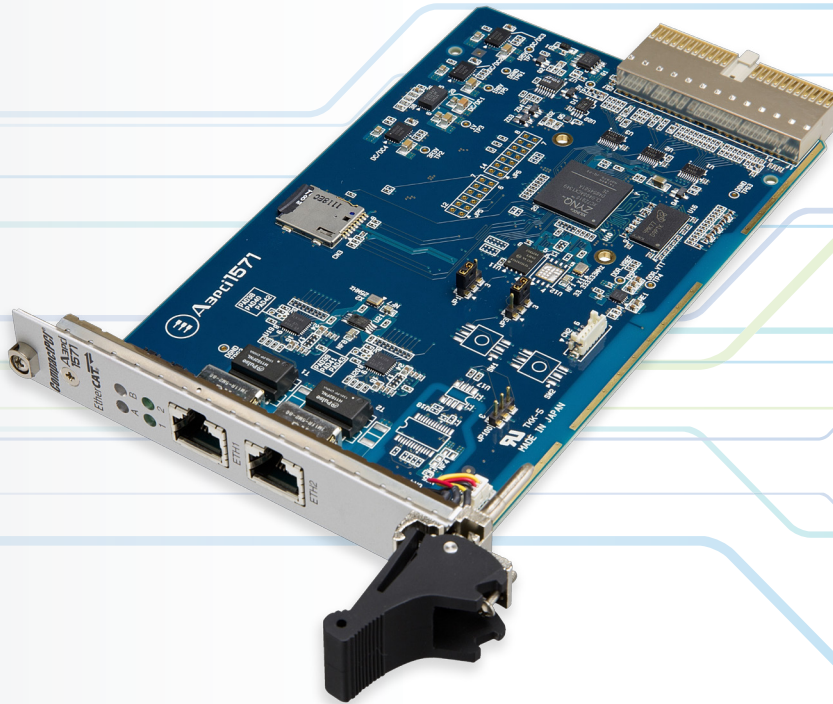


A3pci1571



FEATURES

- **ARM® Cortex®-A9 Dual-Core**
(Xilinx® Zynq®-7010)
- **EtherCAT® Master ClassA Support**
- **EtherCAT® Feature Pack Support**
Secure Cable Redundancy / Hot Connect Capability
- **Fast Ethernet 2 Ports**
- **Operating Temperature: 0°C ~ 55°C**
- **RoHS Compliant**
- **OS: Wind River® VxWorks® 6.9.x**
Microsoft® Windows® 7 (Compatible)

A3pci1571 is a 3U single size CompactPCI board which has the EtherCAT® master communication function.

CPU works as an intelligent CompactPCI bus slave board with Xilinx Zynq® ARM® Cortex®-A9.

As EtherCAT® master protocol stack, "EC Master" with ClassA compatible of acontis technologies is installed. Secure cable redundancy and hot connect capability are supported by EtherCAT® feature pack.

A3pci1571 is controlled by CompactPCI bus master (host CPU). The data is transferred through the shared memory which is installed in A3pci1571.

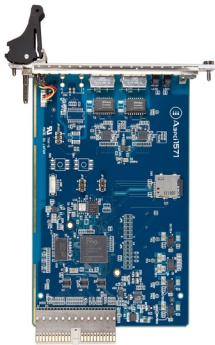
With working as an intelligent slave, A3pci1571 realizes EtherCAT® master communication minimizing the impact for the host CPU.



Avanet

A member of Eurotech Group

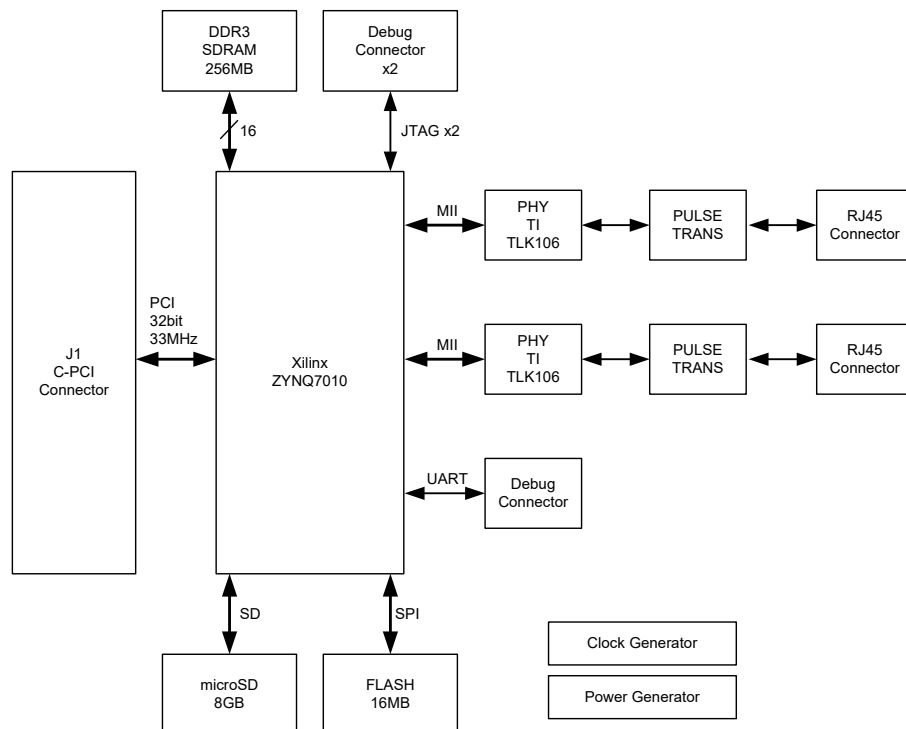
Specifications



Main Specification

CPU	Processor Operating Frequency	ARM® Cortex®-A9 Dual Core (Xilinx® Zynq®-7010) 666MHz
Memory	Main Memory Boot ROM 1 Boot ROM 2 Shared Memory	DDR3 SDRAM 256MB SPI-FLASH 16MB microSD (Spare) 256kB (Zynq® PL Built-in)
EtherCAT®	Classification Feature Pack Periodic Update	ClassA Compatible Secure Cable Redundancy / Hot Connect Capability Configurable at 100us ~ 10ms
Front I/O	EtherCAT® LED	2 Ports, 100BASE-TX, RJ45 Connector (PHY: TI TLK106) *This board cannot be used as EtherCAT® communication port because it is dedicated EtherCAT®. EtherCAT® LINK / LED for ACT lamp x2 EtherCAT® Status Lamp 2 Colors LED x2
On-Board I/O	JTAG UART	2 Ports and Pinheader for Debug 1 Port for Debug
Bus Interface	Standard Signal Level Data Width Clock Frequency Interrupt Line	PCI Local Bus Specification Revision 2.2 PCIMG 2.0 R3.0 CompactPCI Specification PCIMG 2.1 R2.0 CompactPCI Hot Swap Specification 3.3V/5V 32bit 33.33MHz以下 Only INTA#
Power	Supply Voltage Consumption Current	DC 5V ±5% (Power Feeding from CompactPCI Bus) DC 0.65V, 1.33A (Typ), 0.35A (Max)
Mechanical Spec.	Dimension Weight	100.00mm x 160.00mm (3U Size CompactPCI Bus 1 Slot) *6U Size as Optional. 135g
Operating Env.	Operating Temp. Range Operating Hum. Range Non-Operating Temp. Range Non-Operating Hum. Range RoHS	0°C ~ 55°C 35% ~ 80% RH (Non-condensing) -10°C ~ 70°C Not greater than 90% RH (Non-condensing) Compliant
Device Driver	OS	Wind River® VxWorks® 6.9.x, Microsoft® Windows® 7 (Compatible)

Block Diagram



Contact: sales@advanet.jp

*Specifications are subject to change without notice.