- **Availableonvariousindustrystandard&custombusplatforms**

UART
- **1each of RS-232 / 422 channels (Standard UART)**

DIGITALI/O
- **16 Channel Digital I/O (TTL/CMOS voltage)**

MIL-STD-1553B - Optional
- **1 dual redundant channel**
- **DDCcontroller**
- **ProgrammableasBC,RT,MTmodes**
- **DirectorTransformercoupled**

ARINC429 -Optional
- **2ARINC429controller(4Transmit/8ReceiveChannels)**
- **Configurable for High Speed/Low Speed**
- **ProgrammableInterrupts**
- **SoftwareDriver support for a host of operating systems**

OVERVIEW

The AT-cPCI-MPAC family of products provides the highest level of performance and flexibility on various hardware interfacearchitectures and custom platforms. Integrating MIL-STD-1553B, ARINC429, RS-232, RS-422 and Digital I/O channels, all in a singlecard, it offers the ideal platform for test& evaluation of avionics systems and sub-systems. While the UART and DIO features areprovided as standard, the user has a choice of configuring the card to support either MIL-STD- 1553B or ARINC429 or both.   The   cardprovidesonedualredundantchannelofMIL-STD-1553Band2ARINC429controllers.EachARINC429controllerprovides2Txand4Rx channels achieving a maximum of 4 Tx and 8 Rx channels. The MIL-STD-1553B functionality is available with DDC controller andARINC429isalsoavailablewithDDCcontroller.TheAT-cPCI-MPACisintegratedwithpowerfulsoftwarethatreducesdevelopmenttime.AlldatabusfunctionalityissupportedbyouradvancedAPI(ApplicationProgrammingInterface).

CompactPCICard

The AT-cPCI-MPAC card meets the compactPCI spec 2.0 Rev 3.0 and are available in both 3U and 6U formats. The cPCI card isavailableincommercialgradeonly.FrontpanelandRearI/Oconnectivityoptionsareprovided.

I/O

ConnectivityUA

RTChannels

TheAT-cPCI-MPACcardprovidestwostandardserialUARTportssupportingRS-232andRS-422interfaces.Thesearecapableofamaximumasynchronousbaudrateof115.2Kb/s.

Digital I/O Channels

AdditionaltotheserialI/Ocapabilities,theAT-cPCI-MPACisequippedwithTTL/CMOSleveldigitalI/Ochannels.Itcomeswith16general-purposedigitalI/Ochannels.Thesearepre
configuredas8inputsand8outputs.Thesecanbeusedtogenerateaninterruptonanytypeoflevelshiftevent.

MIL-STD-1553B Interface - Optional

TheAT-cPCI-MPACsinglefunctionMIL-STD-1553BarchitecturecanemulatesasaBusControlleror31RemoteTerminalsorMonitorTerminalmodes.Pollingandinterruptgenerationisalsoprovided.The1553BChannelcomewith64K(DDC)ofstaticRAM.

TransformerandDirectCoupling

The card can be configured to work either in the transformer-coupled mode or in the direct-coupled mode. A jumper is provided on thecardtoselectthemode.Itisconfiguredtoworkinthetransformer-coupledmodebydefault.

ARINC429Interface - Optional

The card can be configured with up to 2 ARINC429 controllers. Each controller is configured with 2Tx & 4Rx channels and has 128 x 32bitstaticRAM.Look-uptablesloadedintotheRAMenablethemodulesreceivecircuitrytofilterandsortincomingdatabylabelanddestinationbit.Italsoprovidesmultileveldataspecificinterruptsorhardwaretriggers.

AT-cPCI-MPAC
MultiProtocolAvionicsCards

PRODUCTSPECIFICATIONS

UART
- OneeachofstandardserialUARTportssupportingRS-232/422 interfaces
- BaudRate-Max115.2kbps

Digital I/O Channels
- 16 digital I/O channels pre-configured as 8 Inputs and 8Outputs
- TTL/CMOScompatible I/O channels

MIL-STD-1553B - Optional
- Singlechannel dual redundant interface
- DDCcontroller
- ProgrammableasBC orRTorMT
- 64Kwords of SRAM - DDC controller
- 31remote terminal controls
- Messageformats:BC-RT,RT-BC,RT-RT,BroadcastandSystem Control
- TransformerorDirectcouplingoptions

ARINC429 -Optional
- 1or 2ARINC429 controllers (Each controller 2Tx / 4Rx)
- DDCcontroller
- 128x32bitStaticRAMinterfaceoneachARINC429controller (2Tx &4Rx)
- ProgrammableInterrupts
- ConfigurableBit Format Control
- Built-inFault Detection Circuitry
- WraparoundTestforeachchannel

Software Support
- WindowsXP,Linux&RT-Linux

Physical
- StandardcompactPCI card size (160mm x 100mm)

Environmental
- OperatingTemperature:0°Cto+70°C
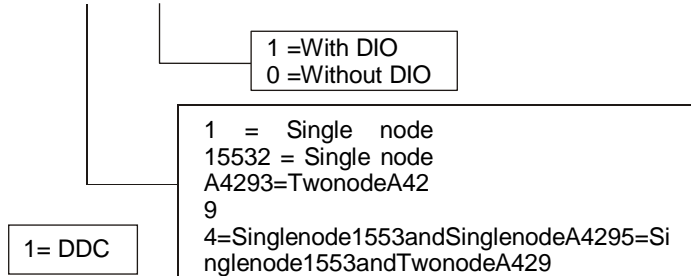- StorageTemperature:-20°Cto+70°C

Warranty
- 1year limited warranty

ORDERINGINFORMATION
HardwareSelection

AT-cPCI-1-1-MPAC-Controller-Channels-DIO

	1 =With DIO
	0 =Without DIO

	1 = Single node
	15532 = Single node A4293=TwonodeA429
1= DDC	4=Singlenode1553andSinglenodeA4295=Singlenode1553andTwonodeA429

- Contactsales for support for other Operating Systems
- Contactsales for configuration of front and rear I/O configuration
- Contactsales for environmental options

ADTECElectronic Instruments Pvt Ltd
563/1, PRERANA TOWERS, Ranka Colony
Road, Off BG Road, Bengaluru 560076
Email :sales@adtec.in
Website :www.adtec.in