



[www.mastec.co.nz](http://www.mastec.co.nz)

[www.mastec.co.nz](http://www.mastec.co.nz)

## Contents & Editorial

### Front Page Contents

Run LabVIEW or VB on Sheldon PCI DSP and DAQ  
Turn you old 486 or Pentium into a scope and more  
GPIB Cables:- We have a large stock - Best prices  
GPIB:- USB to GPIB - ICS GPIB instruments and I/O  
Quatech;- Comms Company- USB to RS-232-422-485

### Page 2 Highlites

UPS Specials  
DC Power Supplies- DC to DC converters  
Inverter Chargers  
Battery Chargers and SLA Batteries  
Line Conditioners  
Surge Protection

## Run LabVIEW or VB on PCI DSP/DAQ 150 and 900 MFLOP boards

**Sheldon Instrument's new DSP/DAQ boards runs  
either Visual Basic or LabVIEW**

**The Discovery:** [www.sheldoninst.com](http://www.sheldoninst.com)

We have known of Sheldon Instruments for many years but it is only recently we really discovered what they are all about, and how powerful their technology is and also they have some of the best value product in town.

**NO Windows - NO OS - Real Time DAQ and DSP**

**This is Powerful Technology:**

At present Sheldon have several PCI DSP boards and all these models take the same mezzanine DAQ boards. The PCI boards run either 150 or 900 MFLOP TI DSP chips. The 900 MFLOP model is based on the TI DSP6711 chip set and it uses standard PC 133MHZ DRAM, so you can install loads of program and data at very low cost. (Most DSP boards use high speed Static RAM which incredibly expensive.)

**This is what you are able to achieve.**

Run LabVIEW or VB real time on these boards with NO Windows, NO DOS or similar OS in the way, and have fantastic performance, either closed loop control or high speed DAQ with real time computation, also DIO.

**Buy DSP plus 16 Bit DAQ for similar price as other DAQ.**

Just in case you were wondering what the cost is, you can get a Sheldon PCI Real Time DSP board with 16 bit 200KHZ ADC and 4 DACs, for the price of a similar DAQ board only from other manufacturers. Choose either Sigma Delta dynamic signal DAQ or SAR DAQ for large (16, 32 or 64) channel counts. Also add Anti Aliasing Filters to clean up the signals. Stand Back!

**Ask Mastec for details and a quote**

## More News:-Turn your old PC into a 150-200MHZ 2 Channel Scope or more

**You all have them laying around, in corners, under tables, go find them and use them again.**

Those old 486 and Pentium machines can become very good instruments:- GPIB and comms protocol analysers, high end scopes, logic analysers, spectrum analysers and arb waveform generators and for a low cost. e.g. 2 Channel USB 150 MHZ scope is \$1299 NZ.

## GPIB and GPIB Cables (We stock 0.5 - 1 - 2 - 4 metres)

**GPIB Cables are stocked in depth**



Our cables are double shielded and have diecast connectors. **The lengths are 0.5, 1, 2, 4 metres long.**

**GPIB Instruments are still as popular as ever.**

A recent addition to the types of GPIB interfaces has made GPIB very portable and useable around a facility. **The new USB to GPIB Converter Cables** are a treat to use and can walk from computer to computer with plug and play ability. So now move from Laptop to Desktop with convenience and they have a low cost.



**ICS of California [www.icselect.com](http://www.icselect.com)** make a large range of GPIB instruments and embeddable boards. These include ADC, DAC, DIO and multi channel DC Set Point Controllers - required by many power controllable supplies.



## Quatech Comms Company USB to Serial and more

**Quatech** make a large range of comms, DAQ and Signal Conditioning products. [www.quatech.com](http://www.quatech.com)

The comms products are very extensive and cover all RS-232, 422 and 485. The methods of connection are ISA & PCI bus, USB, yes! and up to 8 comms port off one USB port and that means 232 or 422 or 485, very useful.

Just plug in the USB Comms Hub into any USB port, that can be on a desktop or laptop and there you have it up to 8 new comms port available.

Quatech also make **Ethernet Comms Servers** that allow a mix of RS-232, 422 and 485 off the same ethernet connected comms box, again very useful.

N

[www.mastec.co.nz](http://www.mastec.co.nz)

Visit our Web Site at



## Uninterruptible Power Supply Sale

### On all PK UPS models



Power Kinetics build SUPERB UPSs. We have special prices on all UPSs from PK at present. These include the BlackOut Buster BOB 10E 600VA, the BOB 12E 1200VA *and the US9003 and US9001 scaleable - redundant UPS.*

### Example of Sale Pricing

*BOB 10E sells at most computer outlets for \$465, we have them on special*

*at present for \$339 +GST*

The BOB 12E, is a line interactive 1200 VA UPS and is suitable for a server or two computer backups or large control systems or similar.

There are thousands of PK UPSs running in NZ and they have an excellent service record.

For those wanting even more exacting protection, the US 9003 and US 9001 Redundant Units are perfect, as they



truly are redundant and scaleable, hotswappable etc.

The 9001 is pure sine and on-line and grows in 1000VA module steps, the 9003 grows in 400VA module steps. These systems grow to 12KVA or more.

Buy modules as your power needs grow. If a module fails it doesn't take the UPS down, the UPS continues with the modules working until a new module replaces the failed one.



To be feel real safe add one more module than you require and you now have what is called in UPS speak, Y+1 redundancy.

For very large UPS systems, PK make the PR3 that expand in 3KA step to allow UPSs to scale to 100KVA and larger.



## TrippLite Inverter/Chargers

These APS units have power ratings of 500, 900, 1000, 2000 2400 and 3600 Watts. There are 12 or 24 VDC models. The 24 VDC are

great for diesel powered boats or mobile homes. All models have high current three stage fast chargers with fans for long term charging of very large battery banks.

## Panasonic SLA Batteries



MasTec distributes Panasonic SLA (sealed lead acid) rechargeable batteries for 8 years with great success. Use: Light Marine, Lighting, Inverters, Medical, Security, PABX & UPS

## Exide Wet and SLA Batteries

MasTec has also distributed GNB/Exide for many years for use in home. marine, mobile power systems. If you need high capacity > 65 amphrs, we recommend Exides broad range of products.

## Industrial DC and AC Power Supplies



System builders need common voltages +5,+/-15, 24VDC, 18VAC, 110VAC and many other ranges, MasTec supply all types, Plug pack, bench, rack, DIN Rail & chassis mount in all ratings. We also do DC UPSs or non break DC power for critical sites, all ratings.

## Uninterruptible Power Supplies UPS

All computers, instruments, PLCs and distributed controlled system, need a UPS to maintain service and provide protection.

TrippLite, we recommend them, they make a large range of high reliability, conventional UPSs from 450VA to 5000VA



## Panamax MAX 6.

### The best surge suppressor.

Protect your investments.

Computers, Printers, scanners, appliances, security systems, TVs, stereos, VCRs, projectors, tools, copiers, faxes, PABXs, PLCs, Controllers, SCADA, DCS, Field devices, instruments and more.



These protectors have over voltage protection, high frequency filters, high in rush current torroids on each outlet, plus a master over current breaker.

## RMA Repairs

MasTec services AC and DC power systems. Ask for an RMA # and we will quote and then repair.

N

www.mastec.co.nz

Visit our Web Site at