



## One Stop for Technology Training - Projects - Products

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**M2M= Machine to Machine in NZ & AUS**

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- OPTO 22 GSM usage
- DUO USB Flash Disks
- Integral Video Compressors
- Jumo German Process Control and more

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### New OPTO 22 OIT Colour Terminals



The OptoTerminal-G75, is a graphics-based operator interface terminal (OIT) for use with Ethernet I/O systems.

With three-and-a-half times the viewing area of little brother, the OptoTerminal-G70, the OptoTerminal-G75 is used to monitor, send commands to, and receive real-time data from plant floor equipment and other devices and systems connected to Opto 22 and other types of industrial controller hardware with ethernet interfacing.

*Already in use in NZ!*

#### OptoTerminal-G75 Features:

- Memory: 4MB flash and 16MB RAM
- Soft keys & Speaker
- Ethernet port
- Aluminum housing
- NEMA-4 rated, CE certified
- Screen is:
  - 10.4 inch (26 cm) diagonal
  - 640 x 480 pixel
  - Colour
  - Touch screen

#### Super Savings on many Products!

Go to our website [www.mastec.co.nz](http://www.mastec.co.nz) and click the "Specials" Button  
**Now Sealed Lead Acid Battery Specials**

### Sheldon :- DSP Seminars TRUE Real Time LabVIEW

Unlike other companies offerings, Sheldon's DSP/DAQ combinations are **TRUE Realtime LabVIEW/VB Systems**.  
(You can turn Windows off and the process will continue)

We have been doing the rounds in Auckland showing how to program this in LabVIEW, building While Loops, Cases, Conditional Execution in **Standard LabVIEW** and then downloading these programs right onto the DSP/DAQ board.

Make Real Time Control with 200KHZ+ loops.  
Or do loads of Digital Filtering and Spectral Analysis.

Would you like to have this seminar? Ask phone or email.

### Advantech :- Huge product offering

Do have a look at Advantech's new web.

<http://www.advantech.com/>.

This company has a full line of excellent IT, Kiosk, Server, Network, Mobile, Industrial and Medical grade products.

They also have a large range of industrial I/O products, controllers, LCD Displays & Touch Panel PCs.

For those involved in OEM building of small DOS/Win computers, they make a powerful range of Biscuit PCs.

### OPTO 22 Backplane & Nokia GSM Model 30 GSM

The Opto GSM I/O rack, is available in two configurations:



- The **G4PB8M-NOK**, which accepts up to five digital output modules and a mix of up to three built-in analog or three digital input modules, for a total of eight I/O points.

- The **G4PB8D-NOK** digital-only rack, which accepts five digital outputs and three digital inputs.

Notice the Nokia 30 GSM Connectivity Terminal™ mounted on the backplane. (available separately from MasTec as part numbers NOK-30BASIC).

The OptoGSM I/O racks can be used to transmit data via short message service (SMS) over any GSM (Global System for Mobile Communications) cellular network.

The resulting OptoGSM I/O system is ideal for smaller facilities monitoring and control or those sites with low I/O point counts.

*Talk to us if you need more I/O. Can do!*

#### Need some LabVIEW training?

MasTec is holding the 6th LV course for 2003 in Auckland.  
**August 21, 22, 23**

Visit our Web Site at [www.mastec.co.nz](http://www.mastec.co.nz)



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### OPTO 22 GSM Backplane with Signal Conditioners and SSRs

Typical applications for this OptoGSM I/O rack include monitoring of temperature, pressure, tank levels, and other variables, as well as on/off control and alarming for lights, motors, pumps, UPS systems, IT systems and servers, generators, and other remote equipment.

These GSM OPTO 22 systems will save a load of driving or walking. Think about if you have any systems that need resetting remotely or monitoring or alarms etc.

Don't get up in the middle of the night to drive down to get a service rebooted or restarted, GSM it with Nokia and OPTO 22 systems.

The OptoGSM I/O rack serves as the foundation for a low-cost machine-to-machine (M2M) solution for customers seeking to perform simple monitoring and control of business equipment and systems.

OptoGSM I/O's compact design, low cost, and mix of analog and digital I/O, makes it perfect for deployment on a small scale with a limited investment.

The OptoGSM I/O rack is also compatible with Nokia M2M Gateway Software® and the Nokia M2M Platform™.

The G4PB8D-NOK is available for ordering now. The G4PB8M-NOK will be available in the third quarter.

Ask for a price list you will be surprised how low cost!

### The New SimpleTech/Duo USB Drives are here! Also Smart Memory cards

This USB Flash Drive is similar to the famous Bonzai.

#### Key Points

- USB interface: plug and play, hot swap functions.
- 1.5MB/second transfer rate
- LED indicates drive is in use.
- No external power required.
- No cables or adapters required.
- Supports Windows 98/98SE/ME/2000/XP; Mac OS 8.6+/X (Windows 98 requires driver).



Price & Duo Codes—All products shipping now!

**128MB D1130 \$91.00NZ + GST**  
**256MB D1131 \$169.00NZ + GST**

Nokia M2M usage in NZ has already started  
Phone 64 9 273 4200  
We will walk you through the M2M idea

### Integral Video Compressors 16 cameras / 20 to 120 frames/second

#### XPress TX Family PCI Compression Digital Video Recording

Integral Technologies has released the XPress TX, a family of high-speed, PCI-bus video compression products that support up to 32 camera inputs.



iVEX compression technology

- \* Up to 32 composite video inputs\*
- \* TriMedia™ VLIW Video Processor
- \* Switched or configurable multi-picture video output
- \* 16 alarm input triggers
- \* Up to 16 alarm output triggers
- \* Multiple board support for scalable solutions \*

Activity detection

- \* Windows® 2000 and XP drivers
- \* Comprehensive SDK with sample applications
- \* with optional XMUX

XPress TX-300 up to 90 images per second.

XPress TX-400 over 120 images per second using iVEX compression. It also adds four channels of bi-directional audio, an on-board watchdog timer, 16 alarm output triggers, and more.

Xpress TXe Coming soon, the Xpress TXe is a Linux-based embedded digital recorder system board based on the TX architecture.

The Xpress TXe comes configured with an IDE interface, USB, Ethernet, and multiple camera inputs. Complete with application development software, Xpress TXe allows for quick time to market for embedded digital recorders.

### Jumo German Industrial Products Now on MasTec's website

Jumo is a large European company that makes almost everything to do with process control and transducers.

We sell quite a few of their nifty little PID controllers.

They also make single or three phase Thyristor Controllers for motors or ovens from 25 to 150 Amps.

Type "Jumo" into the MasTec website search engine

Yes, MasTec's Website [www.mastec.co.nz](http://www.mastec.co.nz)  
now has a Search Engine  
Take it for a drive and see what you can find?

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