



# Artisan Scientific

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Communicating through technology



## **Model 6753 ProDAQ Motherboard Module** **Highly Flexible Modular Data Acquisition System**

- **Large Range of Multiple Function Cards**
- **High Density: Up to 8 Different Function Cards in a Single VXIbus Slot**
- **Substantial Cost Savings on Cards and Chassis Required in Systems**
- **Data Transfer Rate up to 16MBytes per Second**
- **Flexible and Programmable Triggering**
- **VXIplug&play Drivers**
- **Optional Calibration Reference Source**

ProDAQ from Racal Instruments is a unique range of VXIbus based products designed to reduce the cost of developing and building data acquisition and ATE systems.



The Model 6753 ProDAQ Motherboard accepts up to eight different function cards in a single-slot module. It can be easily configured by the user to provide any function or combination of functions required for a specific application. ProDAQ's unique, high-density, modular, configuration will significantly reduce the size and cost of VXIbus based Data Acquisition and ATE systems by offering significant savings in the number of VXI cards and VXI chassis needed within a system.

If needed, a large number of single functions can be fitted within a single VXI slot. For example:

- Up to 384 Digital Input-Output Channels or
- up to 192 Analog to Digital channels or
- up to 128 Digital to Analog channels

The ability to provide up to 4608 Digital I/O channels in a 13-slot VXI chassis or 1920 channels in a small 6-slot VXI chassis is unique in the industry.

Alternatively, the unique configuration concept allows up to eight separate and different functions to be accommodated by the simple addition of various plug-in function cards.



The cards can be factory-fitted within the module to a user-defined configuration, or can be field-fitted by the user, as required, to change, enhance or upgrade the module or system.

### **Data Transfer**

Model 6753 is a register-based device supporting single-word and block-transfer via 16-bit or 32-bit words in the A32 or A24 address space.

### **Software**

The supplied software drivers are designed according to the VXIplug&play standard supporting the Windows, WIN95, and Windows NT frameworks. They can be used with all compatible current popular software environments. The supplied driver automatically detects and configures all fitted function cards, removing any possibility of errors or confusion.

### **Triggering**

A programmable trigger-matrix allows the VXIbus ECL and TTL trigger lines to be routed to and from the individual function cards providing extremely flexible trigger and/or interrupt capabilities. The trigger-matrix also provides interrupt and trigger capabilities between function cards.

### **Calibration Reference**

An optional programmable voltage reference can be fitted to the motherboard to enable self-test and to provide the unique feature "Calibration-on-the-Fly".

The range of plug-in card functions is constantly being expanded. Please refer to your local sales office for the latest development, price and delivery information, or access the web sites at <http://www.racalinst.com> or <http://www.racalinst.co.uk>.



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