'C' Programmable Application Development Module

PTQ-ADM

The PTQ-ADM module is the ideal solution where serial connectivity must be added to the Quantum platform, or where a proprietary algorithm must be protected. Applications using the ADM module include:

- *Bar Code Scanner interface*
- *Legacy ASCII protocol connections*
- *Terminal Port Emulation*
- *Printer Driver (Alarm/Status printer)*
- *Customized Serial Communications*

How to Contact Us: Sales and Support

All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

Asia Pacific
+603.7724.2080, asiapc@prosoft-technology.com
Languages spoken include: Chinese, Japanese, English

Europe - Middle East - Africa
+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com
Languages spoken include: French, English

North America
+1.661.716.5100, support@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America (Sales only)
+1.281.298.9109, latinam@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil
+55-11.5084.5178, eduardo@prosoft-technology.com
Languages spoken include: Portuguese, English

'C' Programmable Application Development Module

PTQ-ADM

The Application Development Module is a Quantum backplane compatible module that allows user-developed 'C' applications to operate on the Quantum platform. A great way to speed up custom ASCII data communications or to protect a proprietary algorithm, the ADM is a powerful tool for the Quantum platform.

Features and Benefits

The ADM module is a single-slot, backplane compatible solution for the Quantum platform that supports user-developed applications. 'C' code applications are developed using Digital Mars or Borland/Microsoft 16-bit development tools, downloaded to, and then debugged on the module.

The ProTalk module is a powerful platform for the Quantum family of processors. Developed under license from Schneider Electric, the module incorporates proprietary backplane technology that enables powerful data access to the Quantum processor.

General Specifications

- Single Slot - Quantum backplane compatible
- The module is recognized as an Options module and has access to PLC memory for data transfer
- Configuration data is stored in non-volatile memory in the ProTalk module
- Up to six modules can be placed in a rack
- Local rack - The module must be placed in the same rack as processor
- Compatible with common Quantum / Unity programming tools
- Quantum data types supported: 3x, 4x
- High speed data transfer across backplane provides quick data update times
- Sample ladder file available

Hardware Specifications

Specification	Value
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)

Specification	Value
Vibration	Sine vibration 4-100 Hz in each of the 3 orthogonal axes
Shock	30G, 11 mSec. in each of the 3 orthogonal axes
Dimensions (HxWxD), Approx.	250 x 103.85 x 40.34 mm 9.84 x 4.09 x 1.59 in
LED Indicators	Module Status Backplane Transfer Status Serial Port Activity LED Serial Activity and Error LED Status
Configuration Serial Port (PRT1)	DB-9M PC Compatible RS-232 only No hardware handshaking
Application Serial Ports	(PRT2, PRT3) DB-9M PC Compatible RS-232/422/485 jumper selectable RS-422/485 screw termination included RS-232 handshaking configurable 500V Optical isolation from backplane

Functional Specifications

The PTQ ADM API Suite allows software developers to access the Quantum backplane and serial ports without needing detailed knowledge of the module's hardware design.

Serial Port API Functions

The serial port API provides a common interface to the serial ports across all of the PTQ hardware platforms. Functions include configuring, opening, closing, controlling and monitoring the serial port, and sending and receiving serial data

Backplane API Functions

The backplane API provides an interface to transfer data between the module and the processor over the backplane. Functions include initialization, configuration, direct I/O access, synchronization, messaging, and control of the console and LEDs.

ADM API Functions

The ADM API provides an interface to initialize the API, control the debug port, read and write data to the database, start and check timers, transfer data over the backplane, parse configuration files, set user LED indicators, and configure the console.

Module Specifications

Module

- User-definable module memory usage, supporting the storage and transfer of up to 5000 registers to/from the control processor
- Floating-point data movement support

Development Environment

- Operating system: General software DOS 6-XL
- Compatible compilers (16-bit DOS target)
  - Digital Mars C++ V8.49 (included)
  - Borland C++ V5.02

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. Compatible products in the ProTalk product line also include:

Generic ASCII Serial Communication Module (PTQ-GSC)

Visit our web site at http://www.prosoft-technology.com for a complete list of products.

Ordering Information

To order this product, please use the following:

PTQ-ADM	'C' Programmable Application Development Module

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to http://www.prosoft-technology.com

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orders@prosoft-technology.com,
fax to +1 661.716.5101

Europe
europe@prosoft-technology.com,
fax to +33 (0) 5.61.78.40.52

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