

QM1600 – Compact PC Controller

PC Performance for fixtures and test system control

BS EN ISO9001

The QM16XX – A flexible way to provide embedded PC functionality into test and control fixtures. A range of PC modules, having very small form factors, that can be provided with industry standard interface busses or can be tailored to suit specific requirements.

PENTIUM CLASS PCS

The modules have been designed to bring the power and utility of Pentium™ class PC's to embedded test and control fixtures. In addition the modules can be provided with industry standard busses such as CompactPCI® and PXI™ for use in crate and rack mounting applications.

SMALL FORM FACTOR

The basic module package conforms to the single Euro Card standard of 100mm x160mm x20.32mm Compact PCI and PXI have also been approved. Connectors are fitted to suit the bus and signalling requirements of the specific application.

The module is normally fitted with a front panel, meeting the EMC requirements of CompactPCI® and PXI™.

ROBUST DESIGN

The unit has been designed to operate in the harsh environment of mobile phone manufacturing, where EMC, reliability and thermal considerations are paramount.

In its role as an embedded fixture controller the module is normally equipped with a front panel Ethernet connector (10/100 mbs) and a serial connector.

STANDARD INTERFACES

Standard PC interfaces, video, keyboard and mouse, are provided on a multi-pin connector located behind the front panel and accessed via a removable cover plate.

CUSTOM APPLICATION

For custom applications the module can be configured for non-standard busses and special I/O interfaces, additional functionality can be provided such as embedded DVM's and signal generation / processing.

POWER SUPPLY MODULE

A power supply module is also available, capable of providing the power requirements of a small rack. This can be supplied as a separate 20.32mm module or combined with the PC module as a 40.64mm composite unit.



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PC Power for fixtures and test system control

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Base Specifications

Euro card form factor 100mm x 160mm x 20.32mm.
Please contact QMS for availability of other form factors.

166 or 266 Mhz Mobile Pentium™ processor.

32 to 256 Mbyte RAM.

1Gb Microdrive Hard Disk

10 / 100 Mbs Ethernet interface

2 Standard + 4 high speed / multi-protocol Serial Ports.

SVGA / LCD graphics, Floppy, Keyboard, mouse & LPT ports

2 x USB

JTAG and I²C Interface's

Dedicated management processor for PSU and thermal monitoring

5 Volt load = approx 2 amp (depends on configuration)

Power Supply Module

Euro card form factor 100mm x 160mm x 20.32mm.

24 volt DC input

+5 volt and +3.3 volt logic supplies, maximum combined power 60 watts

+15volt and –15volt analogue supplies, 60 watt maximum

Dedicated management processor for voltage and thermal monitoring

CONTACT QM SYSTEMS ON THE NUMBER BELOW FOR INFORMATION ON THE RANGE OF OPTIONS AVAILABLE.

QM Systems specialises in producing test systems solutions. This includes complete design, build, test and site installation.

QM Systems skills span all aspects of design and manufacture including analogue and digital electronics, high level software, mechanical, wiring, fixing and custom enclosures. QMS has extensive experience of producing solutions incorporating high integrity RF-screened isolation chambers and fixtures.



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