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Find the *Excalibur Systems Dragon* at our website: *Click HERE*

DRAGON

PC104 AND PC104+ DATA RECORDING SYSTEMS

Excalibur's **Dragon** is a ruggedized modular COTS PC104-*Plus* system with the option of a customer specified configuration. The system is capable of supporting up to six P104 / P104-*Plus* cards in addition to the processor and power supply. The modular, stack-through design allows you to build a tailor-made configuration based on Excalibur's extensive range of boards as well as other compliant third party's cards.

The Dragon is delivered fully integrated with the OS of choice; including installation of all hardware with appropriate drivers, test software, and cables, cutting integration time and letting you get on with the real project.



Special Features

- Conduction cooled
- No moving parts – fanless
- Modular design for easy configuration and upgrade
- Fully tested to MIL-STD-810F, 461E, 1275B and 704E
- Removable SSD memory option for security and backup
- Remote ON/OFF
- Soft shut down

CPU

- Fully Conduction cooled Pentium M, up to 1.8 GHz
- L2-Cache 2048KB
- Front Side Bus: 100 (400) MHz

Memory – RAM

- DDR-RAM, up to 1024 MB

Memory – HD

- Solid State Drive (SSD), up to 128 GB, specifically suited for applications requiring high rates of data streaming without interruption
- Removable SSD drawer option ensures confidential data can be kept safe. An IDE adapter is also included for easy connection to desktop PC.
- Other memory options: removable PCMCIA card, Compact Flash (4 to 16 GB)

USB

- Four USB 2.0 Ports

Keyboard

- USB or PS2

Mouse

- USB or PS2

Serial Ports

- 2 Serial com ports

Ethernet

- 10/100 MB

Operating System

- The Dragon System supports the following OS's: Windows XP, Windows XPe, Linux (for other operating systems, please contact Excalibur Systems).
- The Dragon is provided fully configured and integrated with the OS of choice. This includes installation of drivers for all installed hardware.

CERTIFIED AMS AS 9100

CERTIFIED QMS SI ISO 9001: 2000

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EXCALIBUR SYSTEMS

Power Supply

- Wide input voltage range 9-40Vdc
- Power consumption: under 25 Watts for base model
- Galvanic isolation 1500Vdc
- Under Voltage, Over Voltage, Over Current protection
- Reverse Voltage protection
- Complies with MIL-STD-704E Electric power compatibility for military airborne equipment
- Complies with MIL-STD-1275B Electric power compatibility for 28Vdc electrical systems in military vehicles
- Multi Color LED (ON/OFF/Standby)
- Remote ON/OFF

Connectors

- All connectors are round MIL-STD-38999 type. Connectors are specially sealed to prevent water ingress as well as provide optimum EMI/RFI compatibility.

Casing

- Modular design allows for easy configuration and upgrade
- Conduction Cooled – specially designed to efficiently cool internal electronics
- Highly durable hardened aluminum casing
- Hard coat Anodized per MIL A 8625F TYPE III CLS 2
- Pressure release value
- Power switch guard

Dimensions

- 130mm (L) x 181mm (W) x 140mm (H) – minimum configuration

Weight

- 3.45 Kg – minimum configuration

MIL-STD-810F

The Dragon system has been tested and fully complies with the following MIL-STD-810F tests:

- Hi Altitude, 70,000 feet operating, per method 500.4
- Hi Temperature, operating +71°C (+85°C at the thermal interface), non-operating +100°C, per method 501.4
- Low Temperature, operating -40°C, non-operating -50°C, per method 502.4
- Humidity – 95% Humidity at 60 ºC
- Acceleration – 7G in all three axis
- Sinusoidal Vibration – 15 to 2000 Hz freq. range (Hz) at 10G acceleration
- Random Vibration – 15 to 2000 Hz freq. range (Hz) at 0.1g²/Hz
- Explosive Atmosphere, per method 511.5
- Shock – 40G, ½ sine 11ms, 3 hits in each axis, both directions

MIL-STD-461E

The Dragon system has been tested and fully complies with the following MIL-STD-461E tests:

- CE101 – Conducted Emissions, Power Leads, 30 Hz to 10 kHz
- CE102 – Conducted Emissions, Power Leads, 10 kHz to 10 MHz
- CS101 – Conducted Susceptibility, Power Leads, 30 Hz to 150 KHz
- CS114 – Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz
- CS115 – Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
- CS116 – Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
- RE102 – Radiated Emissions, Electric Field, 10 kHz to 18 GHz
- RS101 – Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
- RS103 – Radiated Susceptibility, Electric Field, 2 MHz to 18 GHz

Configuration Options

- MIL-STD-1553 multifunction interface module
- MIL-STD-1553 single function interface module qualified for airborne applications
- MIL-STD-1760 multifunction interface module
- ARINC 429 multi-channel interface module
- Discrete I/O interface module
- Serial communications interface module
- CAN protocol interface module
- ARINC 708 interface module
- MMSI interface module
- H009 interface module
- Video Server
- GPS
- 16-Bit Analog I/O
- Other boards complying with PC/104 and PC/104plus form factor can be added

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CERTIFIED QMS SI ISO 9001: 2000

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These specifications are subject to change without notification

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EXCALIBUR SYSTEMS

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