Formula Industrial Engines

Formula Industrial Engines form part of Nematron's fully integrated family of Industrial Control Computers & Monitors and is the ideal platform for applications where there is either no monitor requirement or a need to displace the system unit from the Monitor. Equipped with the exact same specification as the Formula Panel PCs a Formula Industrial Engine is ideal where the customer has insufficient room for the entire system chassis or perhaps prefers to avoid locally high vibration.

The Nematron Formula Industrial Engine is based on a high quality, zinc plated chassis design for factory floor and Industrial IT applications. Both the single and three PCI slot chassis feature low power Pentium M and Celeron M technology plus an exhaustive range of options.

An innovative drive carrier design will support a 2.5" HDD, a Floppy Drive, a Slim CDRW/DVD and a second HDD simultaneously. Add to this a 2D/3D Graphics Engine with 64MB, 3 Ethernet ports up to 1000 Mbps Ethernet Controller and we know you'll get the right Formula!

Using the similar core components for simplicity and ease of maintenance, the F3 shares the, drive technology, general electronics and motherboard architecture as the F1 giving a high degree of inter-changeability. The Engine Bay shares the same low power Pentium & Celeron M Series processor technology for cool running and the energy conscious Formula has an 'on-demand' processor activated Engine Bay cooling system to reduce consumption and unnecessary fan use. Formula Industrial Engines also make the ideal platform for XP Embedded applications where higher performance processors are required as well as providing the perfect partner for the Formula Industrial Monitor range.

F3 Engine

Specifications

- Analog Display Support for analog monitors up to 2048x1536 at 75Hz
- On-Board Intel Extreme Graphics 2 Controller with 2D/3D Graphics Engine with 64MB memory
- Celeron M Processor 1.3GHz (or equivalent)
- One or three PCI Slots
- 256MB DDR memory, 40GB 2.5" HDD, Slim CDRW/DVD
- Two PS/2 ports for Mouse and Keyboard
- Three 10/100/1000 Mbps Ethernet Controller
- Two External USB 2.0 ports, two RS-232C serial ports and one parallel port (ECP/EPP)
- Voltage: 100-240 VAC full range
- Operating Temperature 0-45 Degrees Celsius
- CE Certification and UL pending
- RoHS Compliant

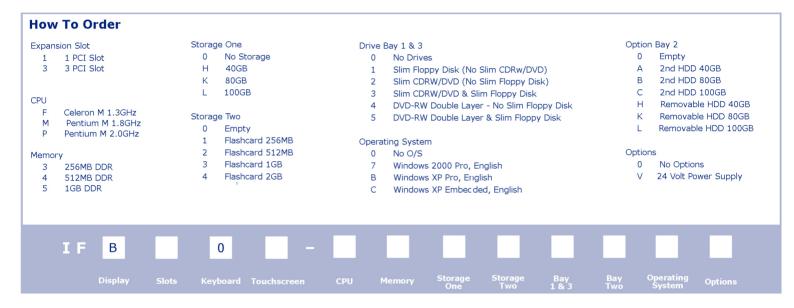| Slots	Dimensions with mounting brackets (WxHxD)	Dimensions without mounting brackets (WxHxD)
1 Slot	409 x 307 x 103.8mm	370 x 307 x 90.8mm
3 Slot	409 x 307 x 171.8mm	370 x 307 x 158.8mm

Base Specifications

- Analog Display Support for analog monitors up to 2048x1536 at 75Hz
- On-Board Intel Extreme Graphics 2 Controller with 2D/3D Graphics Engine with 64MB memory
- Celeron M Processor 1.3GHz (or equivalent)
- One PCI Slot
- 256MB DDR memory, 40GB 2.5" HDD, Slim CDRW/DVD
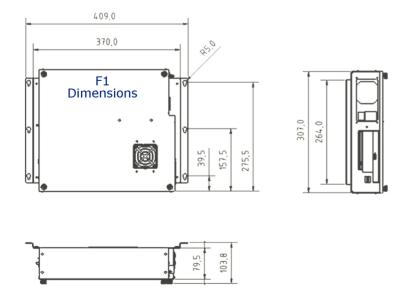- Two PS/2 ports for Mouse and Keyboard

- Three 10/100/1000 Mbps Ethernet Controller
- Two External USB 2.0 ports, two RS-232C serial ports and one parallel port (ECP/EPP)
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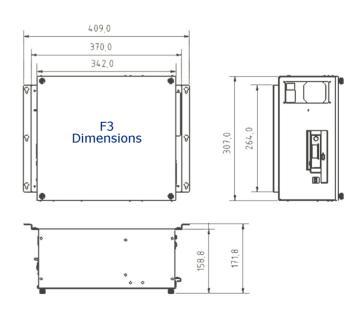- CE Certification and UL pending
- RoHS Compliant

Configurable Options

Pentium M Processors, 3 PCI Slots, Memory expandable to 1GB, Fixed Hard Drive up to 100GB, Compact Flash Type 2 up to 2GB (1-slot only), Additional Fixed or Removable Hard Drive up to 100GB, DVD-RW, Floppy disk drive, 24 Volt Power Supply

How To Order

Expansion Slot
1	1 PCI Slot
3	3 PCI Slot

CPU
F	Celeron M 1.3GHz
M	Pentium M 1.8GHz
P	Pentium M 2.0GHz

Memory
3	256MB DDR
4	512MB DDR
5	1GB DDR

Storage One
0	No Storage
H	40GB
K	80GB
L	100GB

Storage Two
0	Empty
1	Flashcard 256MB
2	Flashcard 512MB
3	Flashcard 1GB
4	Flashcard 2GB

Drive Bay 1 & 3
0	No Drives
1	Slim Floppy Disk (No Slim CDRw/DVD)
2	Slim CDRW/DVD (No Slim Floppy Disk)
3	Slim CDRW/DVD & Slim Floppy Disk
4	DVD-RW Double Layer - No Slim Floppy Disk
5	DVD-RW Double Layer & Slim Floppy Disk

Operating System
0	No O/S
7	Windows 2000 Pro, English
B	Windows XP Pro, English
C	Windows XP Embedded, English

Option Bay 2
0	Empty
A	2nd HDD 40GB
B	2nd HDD 80GB
C	2nd HDD 100GB
H	Removable HDD 40GB
K	Removable HDD 80GB
L	Removable HDD 100GB

Options
0	No Options
V	24 Volt Power Supply

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	Display	Slots	Keyboard	Touchscreen		CPU	Memory	Storage One	Storage Two	Bay 1 & 3	Bay Two	Operating System	Options

F1 & F3 DIMENSIONS

F1 Dimensions

F3 Dimensions