Formula 15" & 17" Panel PCs

The F1 and F3 introduce the panel-mounted touchscreen industrial PCs from Nematron's fully integrated family of Industrial Control Computers & Monitors. The Formula Panel PC combines flexibility, functionality, superlative quality and elegant design.

The Formula Concept

Formula = Display Module + Engine Bay + Media Bay

Common front chassis for multiple display sizes

Low power Pentium M technology

Three Ethernet ports

Engine Bay

Maintenance friendly lift-off rear chassis design

* Formula F1

Three primary components characterize the system nature of Formula:

1. Display Module
   Choose from a range of sizes

2. Engine Bay
   Select leading processor, motherboard and memory technology

3. Media Bay
   Potential to increase device functionality with extra media storage, specialist I/O cards or customer specified configurations.

The Nematron Formula touch screen Panel PC range is based on a high quality, zinc plated chassis design for factory floor and Industrial IT applications. The Display Module available with either Sheet Steel or Stainless Steel front bezel currently supports interchangeable 15" and 17" TFT displays with designed-in growth to support a 19" display, facilitating in-field flexibility.

The slim profile F1, designed for HMI applications, features low power Pentium M and Celeron M technology plus an exhaustive range of memory 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 features such as the maintenance friendly lift-off rear chassis design and we know you'll get the right Formula!

Using the same core components as the single PCI Slot F1, the F3 brings increased expansion through the addition of two further PCI slots. For simplicity and ease of maintenance, the F3 shares the same drive technology and general electronics as the F1 and is interchangeable in almost every respect, Display Modules, cut-outs, general dimensions, components and panel cut-out compatible with the Delta Series. The F3 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 F3

Specifications

- 15" XGA TFT Display with 1024x768 resolution and 24 bit color
- 17" SXGA TFT Display with 1280x1024 resolution and 24 bit color
- On-Board Intel Extreme Graphics 2 Controller with 2D/3D Graphics Engine with 64MB memory
- Celeron M Processor 1.3 GHz
- Resistive Touch Screen
- F1 - One PCI Slot
- F3 - Three PCI Slots
- 256MB DDR memory, 40GB 2.5" HDD, and a Slim CDRW/DVD

- Three 10/100/1000 Mbps Ethernet Controller
- Two PS/2 ports for Mouse and Keyboard
- Two External USB 2.0 ports, two External RS-232C serial ports and one parallel port (ECP/EPP)
- Analog/CRT connector for Multiple Monitor Support
- Input Voltage: 100-240 VAC full range
- Operating Temperature 0-45 Degrees Celsius
- CE Certification
- UL pending

Configurable Options

Pentium M Processors, Memory expandable to 1GB, Hard Drive up to 100GB, Compact Flash Type 2 up to 1GB, Additional Removable Hard Drive up to 100GB, Floppy Disk Drive, Stainless Steel Front., 24 Volt DC power supply
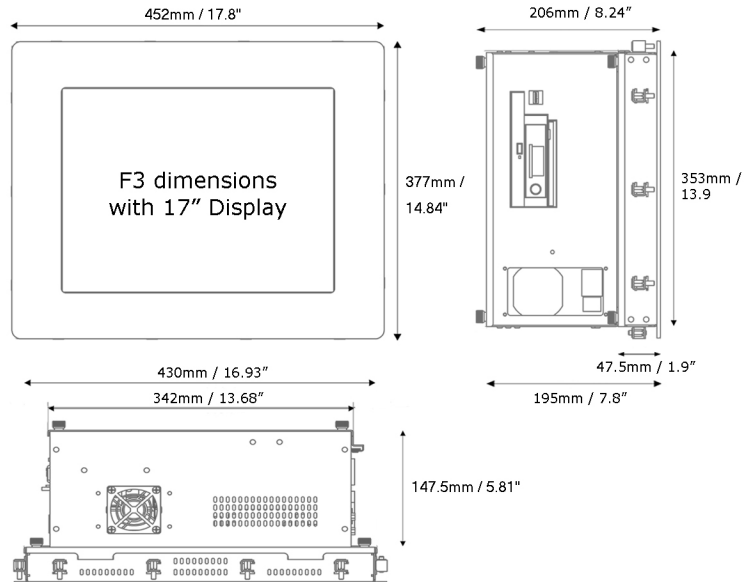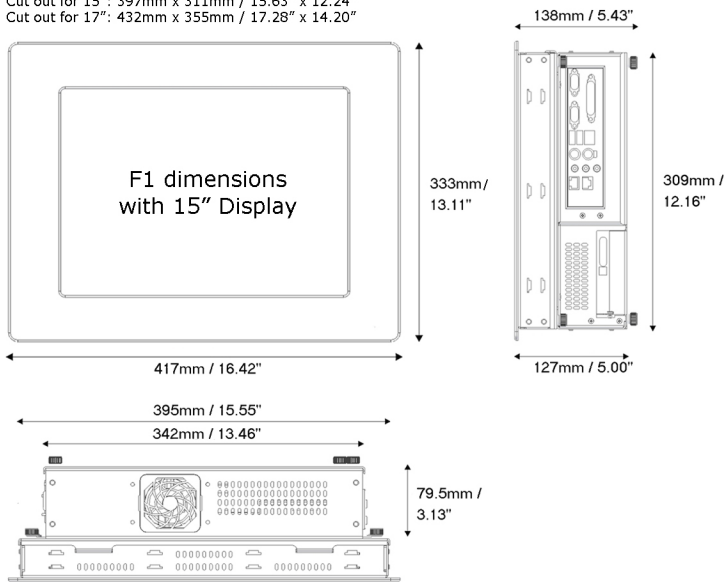
How To Order

Display
- 5   15" TFT Display
- 7   17" TFT Display

Expansion Slot
- 1   1 PCI Slot
- 3   3 PCI Slot

Keyboard
- 0   No Front Keyboard

Touchscreen
- 1   No Touchscreen
- 6   ELO Touchscreen Controller (Serial)

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 (Only F1 - 1 Slot, call for F3)
- 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

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

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

Options
- 0   No Options
- P   Standard Steel Front no-logo
- S   Stainless Steel Front Panel with Nematron Logo
- N   Stainless Steel Front Panel without Logo
- V   24 Volt DC 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

Cut out for 15": 397mm x 311mm / 15.63" x 12.24"
Cut out for 17": 432mm x 355mm / 17.28" x 14.20"

F1 dimensions with 15" Display

333mm / 13.11"

138mm / 5.43"

309mm / 12.16"

417mm / 16.42"

127mm / 5.00"

395mm / 15.55"
342mm / 13.46"

79.5mm / 3.13"

452mm / 17.8"

F3 dimensions with 17" Display

377mm / 14.84"

206mm / 8.24"

353mm / 13.9

430mm / 16.93"
342mm / 13.68"

47.5mm / 1.9"
195mm / 7.8"

147.5mm / 5.81"