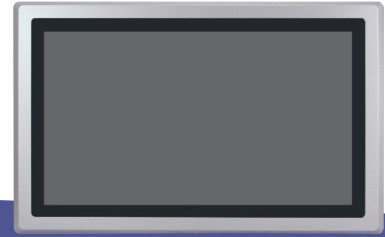# Nematron® ePC185WMT

## 18.5" Widescreen Low-Cost, Fanless, Panel Mount Industrial Computer

## ePC185WMT Overview

The Nematron ePC185WMT is a high performance, fanless, panel mount computer specifically designed to be installed as an automation control interface. The ePC185WMT is widely used in many vertical manufacturing industries and by industrial OEMs.

### Why Nematron?

- Internationally certified
- Unprecedented uptime
- Best in class lead times to meet your schedules and deadlines
- Long product lifecycles that help reduce your cost of ownership

### Target Industries

- Automotive
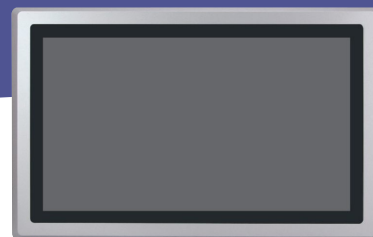- Food & beverage
- Packaging
- Power generation

### Rugged, Superior Quality

- All aluminum construction
- Widescreen, multi-touch
- Solid state drives - no moving parts
- Intel® high performance processor

### Safety-Tested Reliability

- UL/cUL 60950 approved
- CE approved
- Temperature and humidity tested to 50°C
- IP65 front panel
- 2-year warranty

## Nematron
### by COMARK

# Nematron® ePC185WMT

## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Dimensions (inch/mm) | 19.67"W x 12.39"H x 2.36"D<br>499.6mm x 314.6mm x 59.9mm |
| Cutout (inch/mm) | 18.97" x 11.69" / 482mm x 297mm |
| Weight | 13.0 lbs. (5.9kg) |

## DISPLAY SPECIFICATIONS

| | |
|---|---|
| LCD Size | 18.5" |
| Resolution | 1366 x 768 Widescreen |
| Display Colors | 16.7M |
| Brightness | 300 cd/m² (NIT) Standard |
| Viewing Angle | ±170° Horizontal / ±160° Vertical |
| Touchscreen | Projected Capacitive Multi-Touch |
| Contrast ratio | 1000:1 (Typical) |
| Backlight Life | 50,000 Hours |

## PROCESSOR

| | |
|---|---|
| Type & Processor | Intel Quad Core Celeron N2930 |
| Core Speed | Up to 2.16 GHz |
| L2 Cache | 2MB |
| Chipset | Intel Bay Trail-M |

## POWER

| | |
|---|---|
| DC Input Power | 9-36 VDC, 4.5A-1.5A<br>(Must be Powered by a Listed ITE LPS<br>Power Source) |
| AC Power Supply | External AC-to-DC Adapter<br>(Universal AC Input) |

## STORAGE & PERIPHERALS

| | |
|---|---|
| Operating System | Windows® 7 Professional (32-bit);<br>Windows 7 Ultimate (64-bit),<br>Windows 10 IoT Enterprise (32-bit or<br>64-bit) (optional) |
| DRAM | 4GB (On-board DDR3L 1333MHz<br>Dual Channel) |
| Standard Storage | 150GB Solid State Drive; 240GB or<br>480GB Solid State Drives (optional) |
| Available I/O | (1) HDMI Port, (2) USB 2.0, (2) USB 3.0,<br>(2) RS-232, (1) RS-232/422/485,<br>(2) Gigabit Ethernet 10/100/1000,<br>(1) Audio Out |

## ENCLOSURE

| | |
|---|---|
| Material | Die Cast Aluminum Enclosure, IP65<br>Compliant Aluminum Front Panel<br>(when installed in an appropriate enclosure) |
| Mounting | Panel, VESA 100 x 100 |

## COMPLIANCE

| | |
|---|---|
| Compliance | CE, FCC Class A |
| Safety Agency | UL/cUL 60950 (ordinary locations)<br>Indoor Use only |

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature | -0°C ~ 50°C |
| Storage Temperature | -20°C ~ 60°C |
| Humidity | 10%~90% (Non-Condensing) |

## PART NUMBER CONFIGURATOR

### ePC185WMT-N2930-4GB-150SS-W7

**Display Size:**
- **185WMT** — 18.5" Widescreen Multi-Touch

**Processor:**
- **-N2930** — Intel Celeron N2930 Processor (Fanless)

**DRAM:**
- **-4GB** — 4GB DRAM

**Internal Storage:**
- **-150SS** — 150 GB internal Solid State Drive
- **-240SS** — 240 GB internal Solid State Drive
- **-480SS** — 480 GB internal Solid State Drive

**Operating System:**
- **-W7** — Windows 7 Professional (32-bit)
- **-W7U** — Windows 7 Ultimate (64-bit)
- **-W1032** — Windows 10 IoT Enterprise (32-bit) [1]
- **-W1064** — Windows 10 IoT Enterprise (64-bit) [1]

[1] Windows 10 IoT Enterprise is the OEM equivalent to Windows 10 Professional.