

# TOKIN-6083

Fanless 8" Industrial Panel PC with Intel® Celeron® 827E 1.4GHz  
/ Intel® Atom™ D2550 1.86GHz



## Features

- Less Cable , Fanless Design
- Flexible Modular Design
- 8" 1024 x 768 XGA LCD Display w/ LED Backlight
- Die-casting Bezel, Completely Covered w/ Membrane
- Flush Front Panel, IP65-Compliant
- Brightness Control Button
- Anti-spark Power Circuit
- Outside-accessible Push-pull CFast Sockets
- Isolated Serial Ports (RS-232/485), w/ Auto-flow Control
- 2 x Mini-card sockets, 1 x PCI or 1 x PCIe x1
- Semi-Pierced DB9 Hole Reserved for Field-bus Card
- SMA Antenna Holes for Optional WiFi Function
- 9~36V Wide-Range DC Input

## System

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| <b>CPU</b>            | Intel® Celeron® 827E 1.4GHz processor or Intel® Atom™ D2550 1.86GHz processor |
|                       | 2 x DDR3 SO-DIMM Sockets, supporting 1333/1066 MHz SDRAM up to 8GB (827E)     |
| <b>Memory</b>         | 1 x DDR3 SO-DIMM Socket, supporting 1066/800 MHz SDRAM up to 4GB (D2550)      |
|                       | 1 x 2GB DDR3 SO-DIMM memory module (installed)                                |
| <b>Chipset</b>        | Intel® HM65 for 827E                                                          |
|                       | Intel® NM10 for D2550                                                         |
| <b>LAN</b>            | 1 x Intel® 82583V GbE controller                                              |
|                       | 1 x Intel® 82579LM GbE PHY                                                    |
| <b>Watchdog Timer</b> | 1~255 levels reset                                                            |

## Storage

|                              |                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------|
| <b>1<sup>st</sup> Device</b> | 1 x outside-accessible CFast slot                                                                 |
| <b>2<sup>nd</sup> Device</b> | 1 x outside-accessible CFast slot (default), or 2.5" drive bay (included in Standard Accessories) |

## LCD Display

|                             |                         |
|-----------------------------|-------------------------|
| <b>Size/Type</b>            | 8" TFT LCD Panel        |
| <b>Max. Resolution</b>      | 1024 x 768 (XGA)        |
| <b>Max. Colors</b>          | 16.2M                   |
| <b>Luminance</b>            | 300 cd/m <sup>2</sup>   |
| <b>Touch Screen</b>         | 5-wire Analog Resistive |
| <b>View Angle (U/D/R/L)</b> | 75°/75°/70°/70°         |

## Button & Indicator

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Function Key</b>  | Brightness up/down, Screen on/off |
| <b>LED Indicator</b> | Power on LED                      |

## Power System

|                    |          |
|--------------------|----------|
| <b>Power Input</b> | DC 9~36V |
|--------------------|----------|

## Certification

|                  |                 |
|------------------|-----------------|
| <b>EMC / EMI</b> | CE, FCC Class A |
|------------------|-----------------|



## External I/O

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| <b>Serial Ports</b>  | 2 x RS-232 and 2 x isolated RS-232/485 ports, all are DB9 connectors |
| <b>USB Ports</b>     | 4 x Type-A USB 2.0 ports                                             |
| <b>LAN</b>           | 2 x RJ-45 GbE ports                                                  |
| <b>DVI</b>           | 1 x DVI-I connector                                                  |
| <b>Optional Port</b> | 1 x semi-pierced DB9 hole reserved for internal wiring by user       |
| <b>WiFi</b>          | 2 x SMA antenna holes for optional WiFi function                     |

## Expansion

|                      |                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                      | 2 x Mini-card sockets                                                                                                                       |
| <b>Expansion Bus</b> | 1 x PCI 32-bit slot (default, for limited-length expansion card only, 150mm maximum) or 1 x PCIe x1 slot (included in Standard Accessories) |
| <b>Optional</b>      | 1 x Internal USB dongle space                                                                                                               |

## Mechanical

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| <b>Mounting Type</b>         | Panel Mounting and VESA-75/100 Mounting                             |
| <b>Chassis</b>               | Panel-mounting chassis, Aluminum Front Bezel and SECC steel chassis |
| <b>Dimension (W x D x H)</b> | 274.96 x 77.0 x 207.96 mm (10.82" x 3.03" x 8.18")                  |
| <b>Weight (Net)</b>          | 4.5 kg (9.92 lb)                                                    |

## Environmental

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| <b>Operating Temp.</b>    | -20 ~ 60°C (-4 ~ 140°F)                                      |
| <b>Storage Temp.</b>      | -20 ~ 70°C (-4 ~ 158°F)                                      |
| <b>Operating Humidity</b> | 10 ~ 95% RH @ 60°C (non-condensing)                          |
| <b>Vibration</b>          | 5 ~ 500Hz, 2Grms Random (with CF/SSD)                        |
| <b>Shock</b>              | Operating 15G, 11ms<br>Non-operating 40G, 11ms (with CF/SSD) |

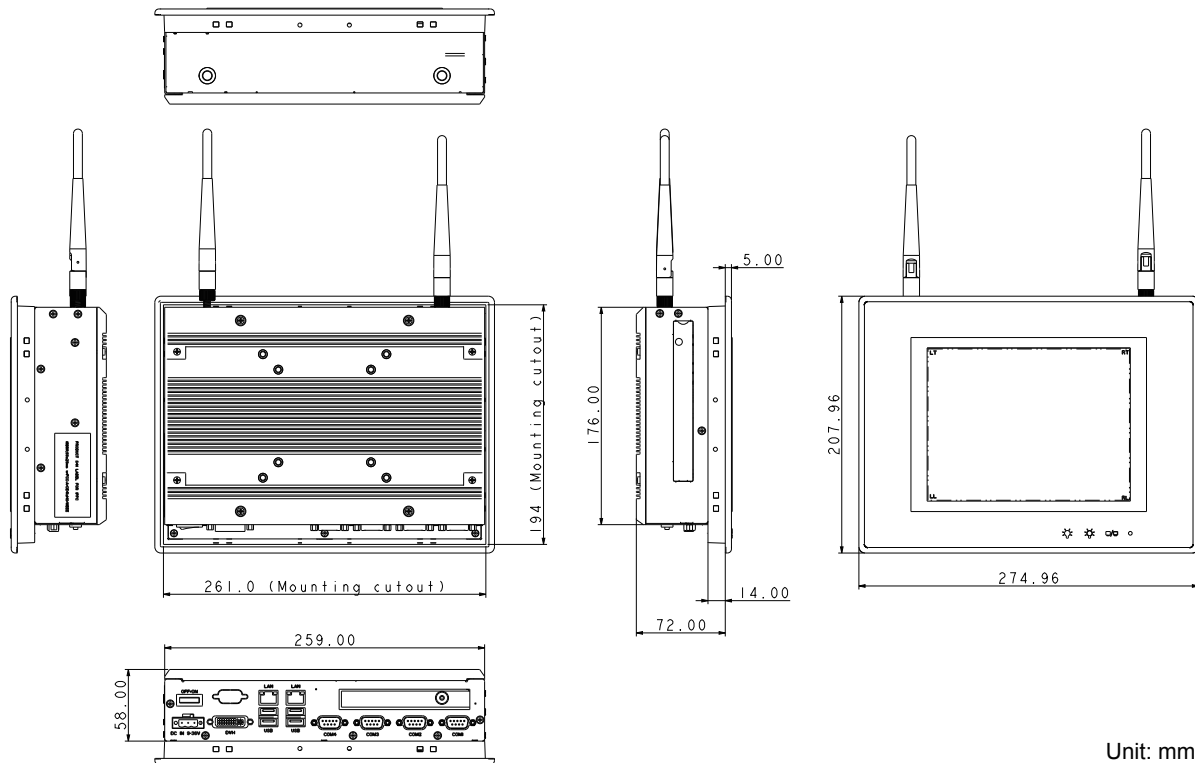
## OS Support

Windows XP Embedded / Windows 7 Embedded /  
Windows Embedded Compact 7 (D2550 only)

## Ordering Information

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| <b>TOKIN-6083-827E</b>  | Intel® Celeron® 827E industrial panel PC w/ 2GB memory |
| <b>TOKIN-6083-D2550</b> | Intel® Atom™ D2550 industrial panel PC w/ 2GB memory   |

## Dimensions



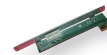
Unit: mm

## Standard Accessories

**EPC-6300 HDD Bracket** 2.5" HDD/SSD Bracket



**SCDB-1395** PCIe x1 Riser Card



## Optional Accessories

**PAC-P065W** 19V/3.4A 65W AC/DC Power Adapter Kit



**PAC-P120W-FSP** 19V/5.96A 120W AC/DC Power Adapter Kit

## Optional Configuration (CTOS\* Kit)

**SSD-25040** Intel® 2.5" 40GB SATAII SSD Kit



**MM-3C-2G** 2GB DDR3-1333 SDRAM



**MM-3C-4G** 4GB DDR3-1333 SDRAM

**WIFI-IN1350** Intel® Centrino® Advanced-N 6205 WiFi Module w/ 20cm & 30cm internal wiring



**ANT-D11** 2.4G/5G Dual-band WiFi Antenna



\*CTOS means *Configure-to-Order Service*.

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