

# AR-PA821FL-E3845/N2930

## Features

- 15"/17"/21" Industrial Compact Size Panel PC
- Flat front panel touch screen
- Fanless design
- Intel Bay Trail N2930(1.83GHz) CPU  
built-in/E3845(1.91GHz ) for option
- Onboard 2GB DDR3L-1600MHz / 4GB(option)
- 9~36VDC wide-ranging power input
- IP65 compliant front panel
- Optional projected capacitive touchscreen  
support 7H anti-scratch surface



## Specification

| Model Name                     | AR-PA821(P)FL-E3845 / N2930                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                  |                                                                                                                        |
| CPU                            | Onboard Intel Bay Trail N2930(1.83GHz) Processor / E3845(1.91GHz ) for option                                          |
| System Chipset                 | Intel Bay Trail SoC                                                                                                    |
| System Memory                  | Onboard 2GB DDR3L-1600MHz / 4GB(option)                                                                                |
| <b>Display</b>                 |                                                                                                                        |
| Display Type                   | 21.5"                                                                                                                  |
| Max. Resolution                | 1920 x 1080                                                                                                            |
| Max. Color                     | 16.7 M                                                                                                                 |
| Luminance (cd/m <sup>2</sup> ) | 250                                                                                                                    |
| Contrast Ratio                 | 3000 : 1                                                                                                               |
| View angle(H°/V°)              | H:178° / V:178°                                                                                                        |
| Backlight Lifetime             | 30,000 hrs                                                                                                             |
| <b>Touch screen</b>            |                                                                                                                        |
| Type                           | Resistive Touch Windows / Projected Capacitive Touch(For P Model)                                                      |
| Interface                      | USB                                                                                                                    |
| Light Transmission             | Resistive Touch Windows: 80% / Projected Capacitive Touch: 90%                                                         |
| <b>I/O Port</b>                |                                                                                                                        |
| USB                            | 1 x USB 2.0 type A + 1 x USB 3.0 type A                                                                                |
| Serial/Parallel                | 1 x RS-232 DB-9(COM2) + 1 x DB-9 RS-232/422/485 (Default RS-232)(COM1)                                                 |
| Audio/HDMI                     | 1 x Audio Line Out / 1 x HDMI Port (Reserved, no printing)                                                             |
| LAN                            | 2 x GbE LAN RJ-45                                                                                                      |
| Power                          | 1 x 3-pin DC Power input terminal + 1 x 2-pin connector for power on/off button                                        |
| Option                         | 2 x RS-232 DB-9 + 1 x mini PCIe slot via TB-528C2ME1                                                                   |
|                                | 2 x CAN bus via TB-528CAN2                                                                                             |
|                                | 2 x USB 2.0 type A Via TB-528U2                                                                                        |
| Storage                        | 2 x USB 2.0 type A + 1 x mini PCIe slot + 1 x RS-232 DB-9 via TB-528C1U2P1 for AR-PA815(P)FL                           |
|                                | 2 x USB 2.0 type A + 1 x mini PCIe slot + 1 x RS-232 DB-9 via TB-528C1U2P1                                             |
| <b>Software</b>                |                                                                                                                        |
| OS Support                     | Windows Embedded Compact 7, Windows Embedded Standard 7,<br>Windows Embedded 8 Standard, Windows Embedded 8.1 Industry |

### Expansion

|                        |                                       |
|------------------------|---------------------------------------|
| On board expansion bus | 1 x Internal mini PCIe slot full size |
|------------------------|---------------------------------------|

### Power Requirement

|                   |           |
|-------------------|-----------|
| Power Input       | 9~36V DC  |
| Power Consumption | Max:26.7W |

### Mechanical

|                   |                                 |
|-------------------|---------------------------------|
| Chassis Color     | RAL 9007                        |
| Front Bezel Metal | Aluminum / Panel Mounting       |
| Rear Panel Metal  | Aluminum / VESA Mount 100 x 100 |
| IP Rating         | IP65 Compliant Front Panel      |
| Dimension (mm)    | 557 x 362 x 64.8                |
| Net Weight (KG)   | 7.8 Kg                          |

### Environmental

|                           |                                   |
|---------------------------|-----------------------------------|
| Operating temperature(°C) | 0~50°C                            |
| Storage temperature(°C)   | -20~60°C                          |
| Storage humidity          | 10 to 90% @ 40°C, non- condensing |
| Certification             | CE, FCC CLASS A, CB, UL           |

### Ordering Information

|               |                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AR-PA821(P)FL | 21.5" FHD Fanless HMI barebone with Intel N2930 / E3845 CPU, 2GB DDR3 RAM, Resistive touch screen / Projected Capacitive touch screen, 9~36V DC input with adapter Aluminum chassis |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Dimension

### AR-PA821(P)FL

