FUDA2 Multi-Touch Panel PC Series

Slim and Fan-less Projective Capacitive Touch Panel PC with Wide Temperature and Panel Mount Support Powered by Intel® Bay Trail Quad-core Processor

In IPC market, a robust and highly reliable Panel PC system is a must to ensure non-stop and stable operation on production line. By enhancing performance and power efficiency, FUDA2 Series is an ideal HMI solution for factory automation, CNC machine and food and beverage industry.

Product Introduction

Powered by Intel® Atom® platform, Bay Trail-I SoC processor E3845, which provides extended temperature and high I/O connectivity within 10W thermal design power (TDP), FUDA2 Panel PC is an ideal platform for applications like highly efficient and dedicated image signal processing with secure content delivery and visually appealing HMI thin clients.

Equipped with a high resolution panel and a sleek, responsive, multi-touch screen, FUDA2 Multi-Touch Panel PC comes with an IP65 rated front bezel and true-flat design. This allows the system to be operated in harsh environment. With its refined appearance, rugged mechanical chassis and multiple modular flexibility, FUDA2 Panel PC's application-oriented design provides customers an ideal HMI solution for factory automation applications.
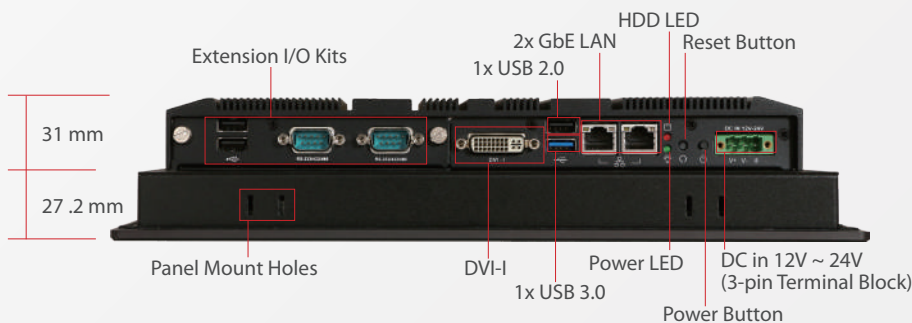
▌ Wide Operating Temperature Support with Fan-less Design

FUDA2 Panel PC takes advantage of Intel® Atom® E3800 family to operate under extremely hot and cold conditions. Compared to most Panel PC in the market, the operating temperature of FUDA2 Panel PC can be as low as -25℃ or up to 70℃ in spite of its fan-less design. Moreover, the cable-less structure optimizes the thermal dissipation as well as makes it more durable in rugged environments.

70°C

-25°C

▌ Flexible I/O for Industrial Environment

FUDA2 Panel PC features all required interfaces for industrial application: 12V ~ 24V DC input, dual LAN, multiple USB ports and RS-232/422/485 selectable in BIOS with auto-flow function. Different I/O extension kits can be chosen to serve different market demands.

Extension I/O Kits

31 mm

27 .2 mm

Panel Mount Holes

2x GbE LAN
1x USB 2.0

HDD LED

Reset Button

DVI-I

1x USB 3.0

Power LED

DC in 12V ~ 24V
(3-pin Terminal Block)

Power Button

* The picture of FUDA2-S1221

I/O Options

FUDA2 - S1021

2 x RS-232 / 422 / 485
Option 0

1 x Line-out
1 x RS-232 / 422 / 485
Option 1

FUDA2 -S12/15/17/1921 & FUDA2-S1820

2 x USB 2.0
2 x RS-232 / 422 / 485
Option 0

1 x RS-232
2 x RS-232 / 422 / 485
Option 1

2 x USB 2.0, 1 x Line-out
1 x RS-232 / 422 / 485
Option 2

70°C / -25°C

Front IP65

10.4" 12.1" 15" 17" 19"

Zoom | Swipe | Pan | Scroll | Rotate | Mulit-tap

▌ Projective Capacitive Touch Panel PC Becomes Popular in Factory Automation Application

Thanks to its robustness and easy operation, Panel PC with projective capacitive touch screen becomes a popular solution in the factory automation industry. With the latest touch screen technology, FUDA2 Multi-Touch Panel PC Series is responsive even when thick industrial gloves are worn and supports palm rejection. Moisture, contaminant, and cutting oil are common in an industrial environment, so it is important these materials don't cause any false actions to the machine. Last but not least, its excellent noise immunity makes it suitable in industrial application.

▌ An Ideal HMI for Industrial Market

FUDA2 Multi-Touch Panel PC targets to apply in industrial environment. Designed to complied with UL 61010-2-201, which specifically addresses safety requirements and related verification tests for industrial control equipment, as well as the EMC directives for both industrial environment and information technology equipment like EN 55032, EN 55024, EN 61000-6-2, EN 61000-6-4, FUDA2 Multi-Touch Panel PC has proved itself an ideal HMI for industrial market by not only passing a variety of thorough and rigorous testing but also being verified by independent certified lab agent.

Water Proof

Oil Resistant

Ordering Guide

AL6-3222	(R).ATO. FUDA2-S1021-0000-00.10.4" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC
AL6-3226	(R).ATO. FUDA2-S1221-0000-00.12.1" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC
AL6-3227	(R).ATO. FUDA2-S1521-0000-00.15" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC
AL6-3223	(R).ATO. FUDA2-S1721-0000-00.17" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC
AL6-3209	(R).ATO. FUDA2-S1921-0000-00.19" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC
AL6-3200	(R).ATO. FUDA2-S1820-0000-02.18.5" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC
AL6-3242 HOT	(R).FUDA2-S1521-0000-00.15" Intel Bay Trail E3845 Projective Capacitive Touch Panel PC with Black Aluminum Bezel and Black Chassis. 4G RAM. 32G SSD. Panel mount. Extension 2*COM/2*USB

intel Atom inside | Gloved Touch | -25°C 70°C Wide Temp. | Fan-less | P-CAP Touch | HDD/CF Easy ACCESS | Slim Panel | IP65 | Wide Voltage 12V-24V | VESA Mount | Panel Mount

FUDA2 Single-Touch Panel PC Series

Slim and Fan-less 5-wire Resistive Touch Panel PC with Wide Temperature Support Powered by Intel® Bay Trail Quad-core Processor

In IPC market, a robust and highly reliable Panel PC system is a must to ensure non-stop and stable operation on production line. By enhancing performance and power efficiency, FUDA2 Series is an ideal HMI in factory automation, food and beverage industry, vending machine or semi-outdoor environments.

Product Introduction

FUDA2 Panel PC is the next generation of Portwell's standard Panel PC product line. Its ascendant, FUDA Panel PC, has been widely proven and adopted by industrial markets like application in factory automation and transportation. Keeping the successful designing and marketing experience in mind, FUDA2 Panel PC aims at serving IPC customers with much more powerful HMI solutions which provide high performance and low power consumption.

Powered by Intel® Atom® platform, Bay Trail-I SoC processor E3845, which provides extended temperature and high I/O connectivity within 10W thermal design power (TDP), FUDA2 Panel PC is an ideal platform for applications like highly efficient and dedicated image signal processing with secure content delivery and visually appealing HMI thin clients.
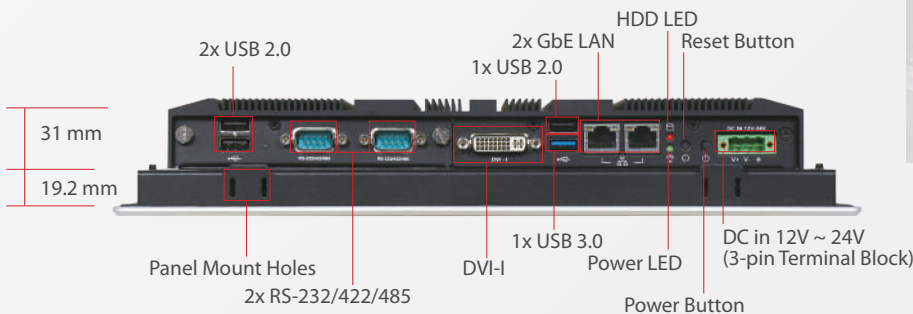
Wide Operating Temperature Support with Fan-less Design

FUDA2 Panel PC takes advantage of Intel® Atom® E3800 family to operate under extremely hot and cold conditions. Compared to most Panel PC in the market, the operating temperature of FUDA2 Panel PC can be as low as -25°C or up to 70°C in spite of its fan-less design. Moreover, the cable-less structure optimizes the thermal dissipation as well as makes it more durable in rugged environments.

Effortless Upgrade

FUDA2 Single-Touch Panel PC Series has been designed to be 100% mechanically compatible with the previous FUDA Panel PC – offering a smart, economical and easy replacement or upgrade solution. Customers can enjoy the identical mechanical design to give a direct upgrade to Intel's latest platform without any need to modify existing machine cabinets or mounting kits.

2x USB 2.0
31 mm
19.2 mm
Panel Mount Holes
2x RS-232/422/485
DVI-I
1x USB 3.0
2x GbE LAN
1x USB 2.0
HDD LED
Reset Button
Power LED
Power Button
DC in 12V ~ 24V (3-pin Terminal Block)

* The picture of FUDA2-S1011

Ambient Light Sensor

☀/☁ 70℃/-25℃ **Front**
IP65
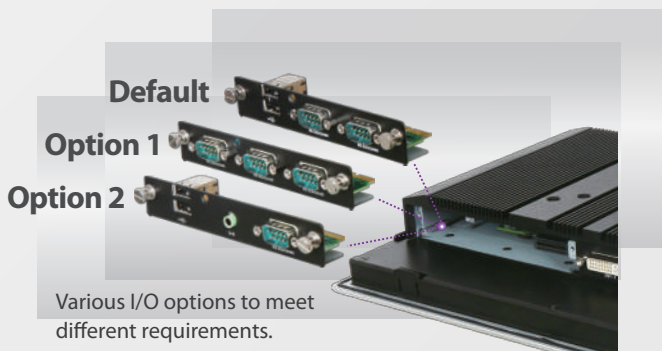
10.4" 12.1" 15" 17" 19"

■ An Ideal Panel PC for Semi-outdoor Application

Facilitated with an ambient light sensor, FUDA2 Single-Touch Panel PC Series is capable of automatically adjust panel brightness by sensing light intensity in the surroundings, which allows it to be more user friendly by optimizing the display's visibility in semi-outdoor environments. Other than providing comfortable viewing experience, this function also benefits FUDA2 Panel PC by lowering the power consumption and extending the lifetime of LED display.

■ A More Powerful and Flexible Panel PC

By adopting the latest Intel® Atom® Bay Trail platform, FUDA2 Panel PC can achieve up to 3x the peak performance and 5x the power efficiency of the previous FUDA Panel PC; especially the visual processing capabilities are improved to enable faster media conversation as well as enhanced HD video transcoding. In addition, more functions are made available; for example, multiple storage including 2.5" HDD/SSD, CF and SD card, WiFi or 3G solutions; USB 3.0 is also adopted. Besides, one PCIe x1 slot and internal 2W speaker is reserved for project use.

Default
Option 1
Option 2

Various I/O options to meet different requirements.

Ordering Guide

AL6-3192	(R)ATO.FUDA2-S1011-AP1000.10.4" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3191	(R)ATO.FUDA2-S1211-AP1000.12.1" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3190	(R)ATO.FUDA2-S1511-AP1000.15" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3189	(R)ATO.FUDA2-S1711-AP1000.17" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3188	(R)ATO.FUDA2-S1911-AP1000.19" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3208	(R).ATO. FUDA2-S1830-0000-02.18.5" Intel Bay Trail E3845 Flat 5W Resistive Touch Panel PC
AL6-3241 **HOT**	(R).FUDA2-S1511-AP1000. 15" Intel Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay. 4G RAM. 32G SSD. Panel mount. Extension 2*COM/2*USB

intel Atom inside | Light Sensor | Wide Temp. | Fan-less | Resistive Touch | WiFi ((4G)) | Slim Panel | IP65 | Wide Voltage 12V-24V | VESA Mount | Panel Mount