FUDA2 Touch Panel PC Series

Slim and Fan-free 5-wire Resistive Touch Panel PC with Wide Temperature Support Powered by Intel® Bay Trail Qual-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 the latest 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.
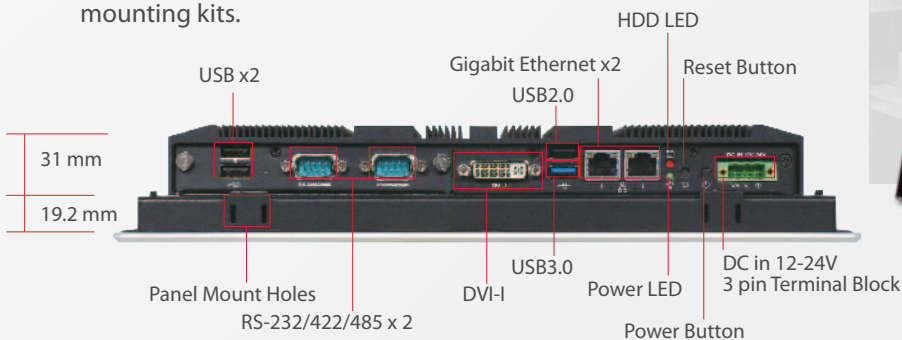
▌ Wide Operating Temperature Support with Fan-free Design

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-free design. Moreover, the cable-less structure optimizes the thermal dissipation as well as makes it more durable in rugged environments.

▌ Effortless Upgrade

FUDA2 Panel PC 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. With the exact same dimension and cut out specification, we offers the perfect upgrade, without any need to modify existing machine cabinets or mounting kits.

USB x2
31 mm
19.2 mm
Panel Mount Holes
RS-232/422/485 x 2
DVI-I
Gigabit Ethernet x2
USB2.0
USB3.0
HDD LED
Reset Button
Power LED
Power Button
DC in 12-24V 3 pin Terminal Block

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FUDA2

* The picture of FUDA2-S1011

Ambient Light Sensor
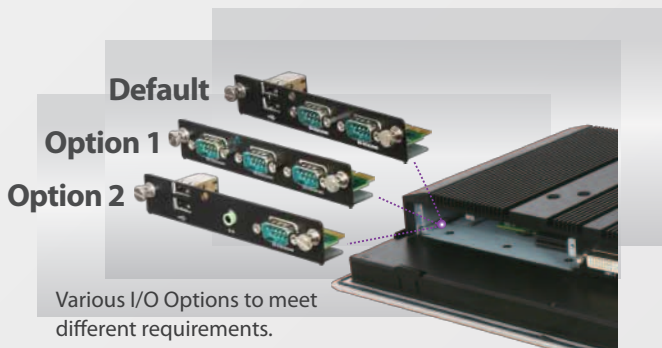
▍ An Ideal Panel PC for Semi-outdoor Application

Facilitated with an ambient light sensor, FUDA2 Panel PC 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 x4 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

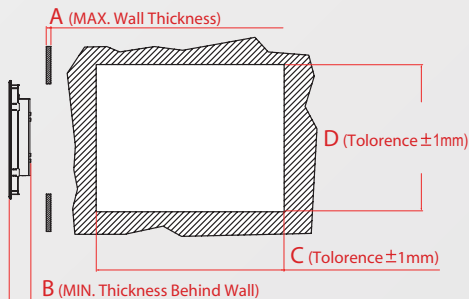| AL6-3192	(R)ATO.FUDA2-S1011-AP1000.10.4" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3191	(R)ATO.FUDA2-S1211-AP1000.12.1" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
AL6-3190	(R)ATO.FUDA2-S1511-AP1000.15" Bay Trail E3845 Panel PC with Aluminum Bezel and PW Overlay
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

Product Features

intel Atom inside	Light Sensor	OP. Temp. 25°C 70°C	Fan Free	Resistive Touch	WiFi (3G)	Slim Panel	IP65	Wide Voltage 12-24V	VESA mount	Panel Mount

FUDA2 Quick Selection Guide

FUDA2 10.4"/12.1"/15"/17"/19"

Model Name	FUDA2-S1011	FUDA2-S1211	FUDA2-S1511	FUDA2-S1711	FUDA2-S1911
Display					
LCD Size	10.4"	12.1"	15"	17"	19"
Resolution	XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768	SXGA 1280 x 1024	SXGA 1280 x 1024
Brightness	450 cd/m2	500 cd/m2	450 cd/m2	350 cd/m2	350 cd/m2
Contrast Ratio	3000:1	700:1	700:1	700:1	1000:1
Backlight	LED type	LED type	LED type	LED type	LED type
Touch Screen	5-Wire Resistive Single Touch (P-CAP Touch by project)				
System					
SoC	Intel® Atom™ Qual-Core E3845 (1.91 GHz)				
Memory	DDR3L SO-DIMM 1333/1600 MHz max up to 8GB				
BIOS	AMI				
Graphics	Intel® Gen7 Graphics				
LVDS	Single/ Dual Channel 24-bit				
LAN Chipset	Dual Intel® 1210IT Gigabit Ethernet (Support Jumbo Frame)				
Audio	Realtek High Definition Audio Codec				
Watchdog Timer	1~255 levels reset				
Storage Device	2.5" SATA HDD/ SSD, Compact Flash II up to 64GB, SD card				
OS	Windows 7/ Windows 8.1 / Linux™				
I/O Interface					
Series Port	2 x RS-232/422/485 (Expansion : default)				
Display	1x DVI-I				
USB	1 x USB 2.0, 1 x USB 3.0, 2 x USB 2.0 (Expansion : default)				
Ethernet	2 x Gigabit Ethernet				
Others	1 x SMA Antenna hole for WiFi/3G Solution				
Expansion	1 x Half-size Mini-PCIe socket 2 x RS-232/422/485, 1 x RS-232 (Option 1) 1 x Line-out, 1 x RS-232/422/485, 2 x USB 2.0 (Option 2)				
Mechanical					
Dimesion(mm)(WxDxH)	314 x 253 x 50.2 mm	343 x 282 x 53.2 mm	425.4 x 330 x 55.6 mm	437 x 375 x 58.6 mm	480 x 400 x 58.6 mm
Mounting (mm)	VESA Mount 75 x 75 & 100 x 100; Panel Mount				
Weight (Kg)(N)	3.5 Kg	4.3 Kg	5.3 Kg	6.8 Kg	7.8 Kg
Weight (Kg)(G)	5.8 Kg	6.2 Kg	8.2 Kg	9.5 Kg	11.2 Kg
Power					
Power Supply	DC 12 ~ 24V input with 3-pin Terminal block Connector				
Consumption (Max)	33.1W(12V); 34.3W(24V)	35W(12V); 36W(24V)	39.2W(12V); 40.0W(24V)	47.5W(12V); 48W(24V)	45.6W(12V); 46.3W(24V)
Consumption (Min)	7.1W(12V); 7.9W(24V)	7.1W(12V); 7.9W(24V)	7.3W(12V); 7.9W(24V)	7.3W(12V); 8.2W(24V)	7.3W(12V); 7.9W(24V)
Environmental					
OP /Storage Temp	-25 ~ 70°C / -40~85°C (20~90% non-condensing)				
Vibration	1.0G(SD/CF/SSD) and 0.5G(HDD) , Power on & 2.16G, Packaged; 5~500Hz,IEC 60068-2-64				
Shock	15G peak acceleration, 11 ms (Power on condition), IEC 60068-2-27				
Drop	Packaged with Carton 96.5cm (1-Corner, 3-Axis, 6-Face),ISTA 2A Standard				
IP Protection	IP65 (Front) / IP20 (Rear), IEC 60529 Edition 2.1 Standard				
Certificate	CE/FCC Class A				

Cut out Dimension

A (MAX. Wall Thickness)

D (Tolorence ±1mm)

C (Tolorence ±1mm)

B (MIN. Thickness Behind Wall)

FUDA2

	A (mm)	B (mm)	C (mm)	D (mm)	Mounting Kits (pcs)
FUDA2-S1011	<10.7	50.2	297	236	x 8
FUDA2-S1211	<10.9	53.2	326	265	x 12
FUDA2-S1511	<11.3	55.6	408.5	313	x 16
FUDA2-S1711	<12	58.6	420	358	x 16
FUDA2-S1911	<12	58.6	463	383	x 20