



# FUDA3 Multi-Touch Panel PC Series

Slim and Fan-less Projective Capacitive Touch Panel PC with Wide Temperature Support  
Powered by Intel® Atom E3900 Family Processors

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, FUDA3 Series is an ideal HMI in factory automation, vending machine, Textile machine and harsh dirty industry environments.



## Product Introduction

Powered by Intel® Atom® x7-E3950 which provides extended temperature and flexible I/O connectivity within 12 watt thermal design power (TDP), FUDA3 Series 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, FUDA3 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, FUDA3 Panel PC's application-oriented design provides customers an ideal HMI solution for factory automation applications.

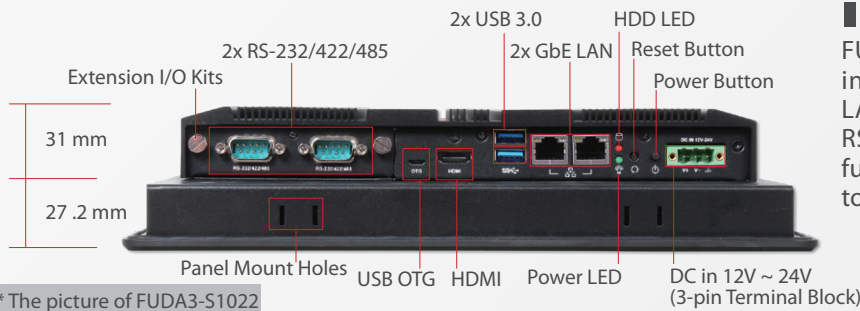
## Wide Operating Temperature Support with Fan-less Design

FUDA3 Panel PC takes advantage of Intel® Atom® E3900 family to operate under extremely hot and cold conditions. Compared to most Panel PC in the market, the operating temperature of FUDA3 Panel PC can be as low as -25°C or up to 60°C in spite of its fan-less design. Moreover, the cableless structure optimizes the thermal dissipation as well as makes it more durable in rugged environments.

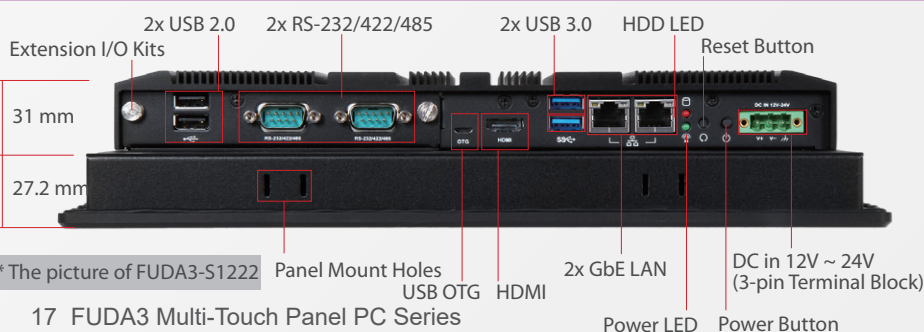


## Flexible I/O for Industrial Environment

FUDA3 Panel PC features all required interfaces for industrial application: 12V ~ 24V DC input, dual LAN, HDMI, USB 3.0, USB 2.0, USB OTG 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.



\* The picture of FUDA3-S1022



\* The picture of FUDA3-S1222

## I/O Options

### FUDA3 - S1022



2 x RS-232 / 422 / 485

Option 0

### FUDA3 - S1222 / S1522

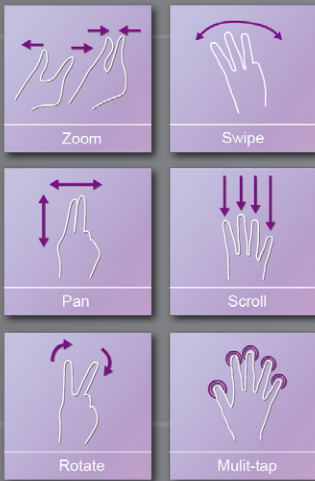


2 x USB 2.0  
2 x RS-232 / 422 / 485

Option 0

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

Option 1



60°C / -25°C  
 Front IP65



### ■ New Projective Capacitive Touch technology is Stronger and Excellent in Industrial Environment

New touch technologies, such as excellent noise immunity for any Industrial environment (CS 10V<sub>rm</sub>), excellent radiated susceptibility support up to 50V/m, premium water resistance performance and heavy glove support, are implemented on FUDA3 projective capacitive multi-touch screen series Panel PC. It can solve the problem that projective capacitive multi-touch screens do not operate effectively within an industrial input voltage noise interference environment. We believe that "adopting our FUDA3 Series Panel PC is the obvious choice to adopt in industrial HMI market."

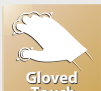
### ■ An Ideal HMI for Industrial Market

FUDA3 P-CAP Touch Panel PC targets to apply in industrial environment. Designed to comply with heavy industry, 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, BS EN 55032, EN 55035, BS EN 550535, EN 61000-6-2, BS EN 61000-6-2, EN 61000-6-4, BS EN 61000-6-4, FUDA3 P-CAP 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.



### Ordering Guide

AL6-3292	(R).ATO. FUDA3-S1022-0000-00.10.4" Intel® Apollo Lakel E3950 Projective Capacitive Touch Panel PC
AL6-3296	(R).ATO. FUDA3-S1222-0000-00.12.1" Intel® Apollo Lakel E3950 Projective Capacitive Touch Panel PC
AL6-3291	(R).ATO. FUDA3-S1522-0000-00. 15" Intel® Apollo Lakel E3950 Projective Capacitive Touch Panel PC

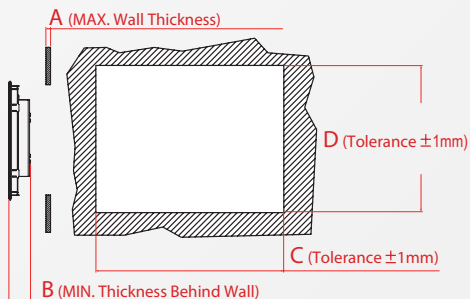


# FUDA3 Quick Selection Guide

FUDA3 Multi-Touch 10.4" / 12.1" / 15"

Model Name	FUDA3-S1022	FUDA3-S1222	FUDA3-S1522
<b>Display</b>			
LCD Size	10.4"	12.1"	15"
Resolution	XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768
Brightness	450 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>
Contrast Ratio	3000:1	700:1	700:1
Backlight	LED type	LED type	LED type
Touch Screen	Projected Capacitive Multi-Touch (10 points)		
<b>System</b>			
SoC	Intel® Atom™ x7-E3950 (Quad Core, 2M Cache, up to 2.0 GHz)		
Memory	DDR3L SO-DIMM 1866 MHz up to 8 GB		
BIOS	AMI		
Graphics	Intel® HD Graphics 505		
LVDS	Single/ Dual Channel 24-bit		
LAN Chipset	Dual Intel® Gigabit Ethernet Chipset		
Audio	N/A		
Watchdog Timer	Programmable 1 ~ 255 sec		
Storage Device	1 x 2.5" SATA HDD / SSD, 1 x Mini-mSATA		
OS	Windows 10/ Linux™		
<b>I/O Interface</b>			
Series Port	2 x RS-232/422/485 (Expansion : Option 0)		
Display	1 x HDMI		
USB	1 x USB OTG, 2 x USB 3.0	1 x USB OTG, 2 x USB 3.0, 2 x USB 2.0 (Expansion: Option 0)	
Ethernet	2 x Gigabit Ethernet		
Others	1 x SMA Antenna hole for WiFi/LTE Solution		
Expansion	1 x Full-size Mini-PCle socket 1 x Half-size Mini-PCle/Mini-mSATA socket switch by jumper	1 x Full-size Mini-PCle socket 1 x Half-size Mini-PCle/Mini-mSATA socket switch by jumper 2 x RS-232/422/485, 1 x RS-232 (Expansion: option 1)	
<b>Mechanical</b>			
Dimension(mm)(WxDxH)	282 x 238 x 57.3 mm	305 x 260 x 58.2 mm	384 x 310 x 56.6 mm
Mounting (mm)	VESA Mount 75 x 75 & amp; 100 x 100; Panel Mount		
Weight (Kg)(N)	3.5 Kg	3.9 Kg	5.1 Kg
Weight (Kg)(G)	5.8 Kg	6.0 Kg	7.8 Kg
<b>Power</b>			
Power Supply	DC 12 ~ 24V input with 3-pin Terminal Block Connector		
Consumption (Max)	33.5W (12V); 33.6W (24V)	40.9W (12V); 39.4W (24V)	40.5W (12V); 40.2W (24V)
Consumption (Min)	11.8W (12V); 14W (24V)	12W (12V); 12.3W (24V)	11.2W(12V); 12W (24V)
<b>Environmental</b>			
OP /Storage Temp	-25°C ~ 60°C / -40°C ~ 85°C (20 ~ 90% non-condensing)		
Vibration	1.0G (SSD) and 0.5G (HDD) , Power on ; 2.16G, Packaged; 5~500Hz, IEC 60068-2-6		
Shock	15G peak acceleration, 11 ms (Power on condition), IEC 60068-2-27		
Drop	Package with Carton from 96.5 cm (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, UKCA, EN 62368-1, EN 61000-6-2 , EN 61000-6-4		

## Cut out Dimension



## FUDA3 Multi-Touch

	A (mm)	B (mm)	C (mm)	D (mm)	Mounting Kits (pcs)
FUDA3-S1022	<10	52.5	265	222	X 8
FUDA3-S1222	<10	52.4	289	244	X 8
FUDA3-S1522	<7	50.6	367	293	X 14