Zenith19M-Z04
19" Wide Touch Screen Panel PC

Features

- 19 inch Wide Screen All-in-One Panel PC
- 1440 x 900 resolution
- 16:10 High Quality Wide Screen
- Supports Intel® Core™ 2 Duo/Celeron® M Processor
- 667/800/1066 MHz FSB
- Intel® GM45/ICH9ME Chipset, GMA 4500MHD
- up to 4 GB DDR2 SO-DIMM 667/800 MHz System Memory
- External I/O: Mini-PCIe, 1 COM, DVI, HDMI, VGA, 2 Gbit LAN, Audio, 6 USB
- Function Keys for Brightness & Volume Control
- DC 19V Power
- Dimensions: 19.25" (L) x 12.5" (W) x 3" (D)
- FCC/CE/UL Certified

OEM products are designed for OEMs with ongoing and consistent order requirements and subject to minimum order quantities. Evaluation units are available without such restrictions. Aplus Inc. has multiple stocking distributors that may be able to work with OEMs to streamline product deliveries. Please contact Aplus Inc. Sales for more information on any OEM products you may be interested in.

System

CPU:	Supports Intel® CoreTM 2 Duo/ Celeron® M processors with 667/800/1066 MHz FSB Up to 35W
Chipsets:	Intel® 45GM + Intel® ICH9M-E
System Memory:	Two SO-DIMM slots support up to 4 GB DDR2 667/800 MHz
Audio:	Realtek® ALC888/ALC886 HD Audio
Ethernet:	LAN 1: Intel® 82567LM Gigabit LAN
	LAN 2: Intel® 82574L Gigabit LAN
Drive Bay:	1 x 2.5" HDD Bay, 1 x Slim CD/DVD-ROM Bay
Expansion:	1 x Mini PCI Express
WiFi:	Optional WiFi Module
Watchdog Timer :	Reset: 1~65535 sec./min. and 1 min./step
H/W Status Monitor	Monitoring System Temperature, Voltage with Auto Throttling Control

Display Screen

LCD Size:	19", 16:10
Display Type:	WXGA + TFT
Resolution:	1440 x 900
Pixel Pitch:	0.282mm (H) x 0.282mm (V)
Luminance:	300 cd/m2
Contrast Ratio:	850
Touch Screen:	Optional 5-wire Resistive Touch

Mechanical and Environment

Installation/Mounting:	Wall/ Stand/ VESA 100mm X 100mm
Power Adapter:	Input: 100-240V ~ 1.5A 50-60Hz
	Output: 120W 19V 6.3A
Operating Temperature:	0 ~ 35°C (32 ~ 95°F)
Storage Temperature:	-10 ~ 50°C (14 ~ 122°F)
Operating Humidity:	0% ~ 90% Relative Humidity, Non-condensing
Dimensions:	49cm (L) x 32cm (W) x 7.62cm (D)
Weight:	6.5 kg

External I/O

COM:	1 x RS-232
LAN:	2 x RJ-45
HDMI:	1 x HDMI
DVI:	1 x DVI
VGA / YPbPr:	1 x DB-15
Audio:	Line-out, MIC-in, Line-in
USB:	6 x USB 2.0
Speaker:	2x5W

Display

Display Chipset:	Intel® GM45 Integrated Graphics Media Accelerator 4500MHD
Display Memory:	Intel® DVMT 5.0 Supports 384MB Shared Video Memory
Resolution:	Max Resolutions Up to 2048 x 1536
Second Display:	HDMI/DVI/VGA

Accessory Included: 1 x Power Adaptor, 1 x Power Cord (Europe), 1 x Heatpipe, 1 x SATA CD- ROM Adaptor, 1 x Pack of Screws, 1 x Driver CD, 1 x User's Quick Installation Guide
Note: The standard version DOES NOT come with 5-wire Resistive Touch and Zenith19M-Z04 designed stand. Please contact us for pricing and lead-time.

Extended Lifecycle and Revision Control

The Zenith19M-Z04 is anchored on industrial motherboard which has a 7 year lifecycle. The same stability and control processes that customers have come to expect from industrial board line are applied to our industrial PC.

Performance

The Zenith19M-Z04 integrates Mini ITX motherboard into an optimized metal frame housing behind the LCD panel with optional touch and wrapped in a black glossy front bezel and rear cover. The system design is based on the Intel® GM45 Express Chipset with Socket P support and the Intel® 45nm Mobile Core™ 2 Duo processor up to 1066 MHz FSB for faster data transfer rate. The integrated Intel® Graphics Media Accelerator (GMA) 4500MHD supports Blue-ray, 1080P HD and outstanding 3D graphics performance for content-rich applications. The dual display capabilities are supported via external HDMI, DVI and VGA outputs.

Ultra-slim design

Unlike most industrial PC units designed for the shop floor, the Zenith19M-Z04 offers a much softer and elegant look suitable for a non-factory environment yet maintains the Core™ features of an industrial/embedded product such as extended lifecycle and revision control. The ultra-slim design is only 7.62 cm thick comparable to typical LCD monitors and the plastic finish sports a high gloss finish.

Zenith19M-Z01
IP65 19" Wide Touch Screen Panel PC

Features

- 19 inch Wide Screen All-in-One Panel PC
- 1440 x 900 resolution
- 16:10 High Quality Wide Screen
- **Intel ATOM D2550 (1.86G Cedar Trail-D)**
- **NM10 Chipset**
- **DDRIII SO-DIMM x 2 1066/1333MHz 4G**
- **Surface Pencil Hardness >=3H per ASTM D 3363 Touch Panel**
- **VGA In Port (Monitor)x1, VGA Out Port x 1, RJ45 LAN Jack x 2, USB 2.0 x 4, RS232 Serial Port (COM Port) x 4 PC Legacy Printer Port x 1 Audio Line-in/Line-out x 1, Mic-in x 1 Antenna x 3**
- **Dimensions: 46.5cm (L)x314cm (W)x6.76cm (D)**
- FCC/CE/UL Certified

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System

CPU:	Intel ATOM D2550 (1.86G Cedar Trail-D)
Chipsets:	Intel NM10
System Memory:	Support : SO-DIMM DDR3 x 2 (MAX 4G) Default 4G
Audio:	Realtek ALC886
Ethernet:	Dual Intel Giga LAN 82583Vx2
Drive Bay:	2.5"SATA III HDD Bay : X 1 Default : 320G (SATA II)
Expansion:	mini Card Slot : x 2
WiFi:	Wi-Fi/3G Module for optional
Watchdog Timer :	Reset: 1sec ~255sec
H/W Status Monitor	Monitoring System Temperature, Voltage with Auto Throttling Control (optional)

Display Screen

LCD Size:	19", 16:10
Display Type:	WXGA + TFT
Resolution:	1440 x 900
Backlight:	LED
Luminance:	250 nits
Contrast Ratio:	600
Touch Screen:	10-fingers AMR MultiTouch

Mechanical and Environment

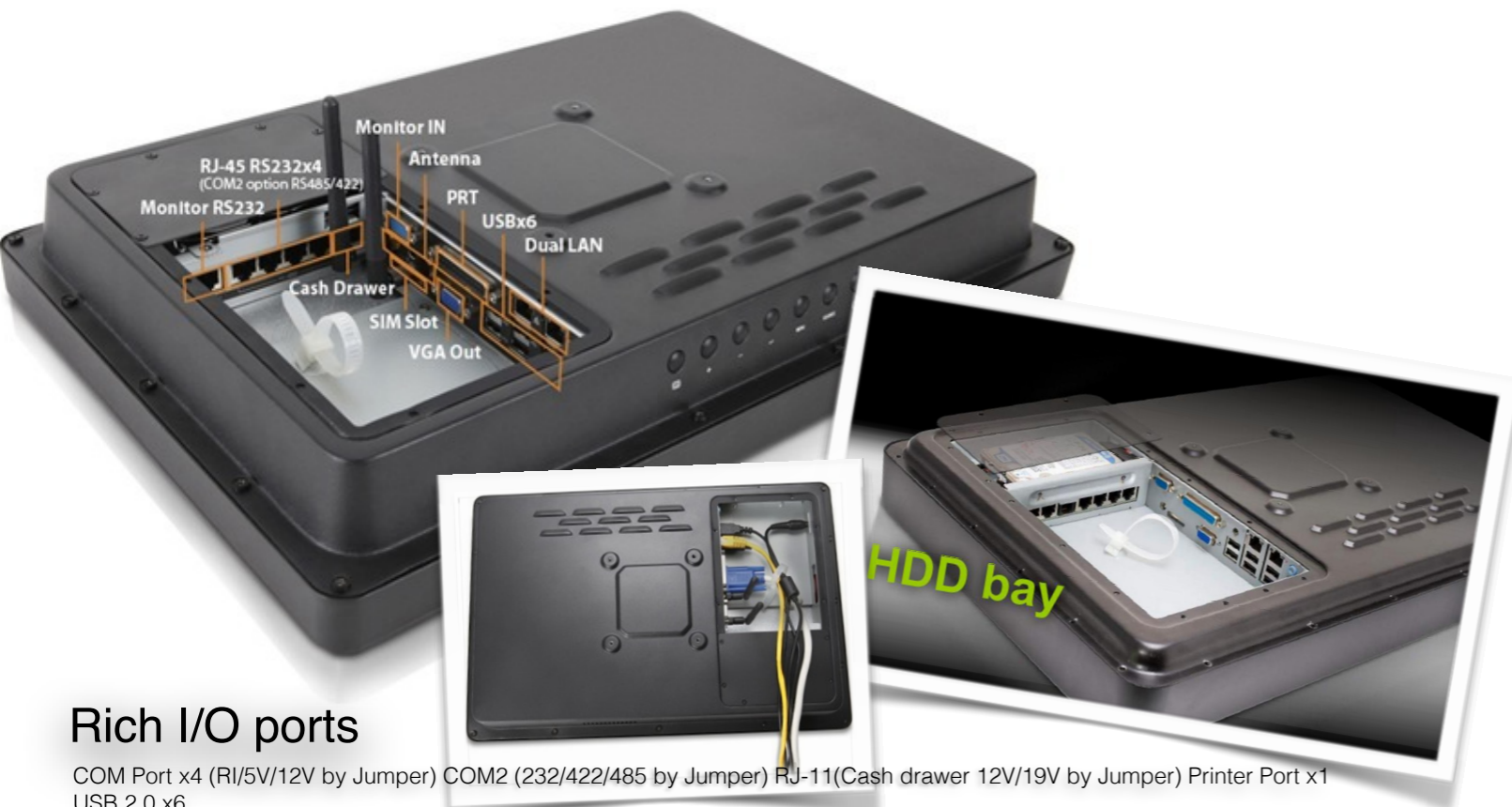|	
Installation/Mounting:	Wall/ Stand/ VESA 100mm X 100mm
Power Adapter:	Input: 100-240V ~ 1.5A 50-60Hz
	Output: 90W 19V 5A
Operating Temperature:	0 ~ 35°C (32 ~ 95°F)
Storage Temperature:	-10 ~ 50°C (14 ~ 122°F)
Operating Humidity:	0% ~ 90% Relative Humidity, Non-condensing
Dimensions:	46.5cm (L)x314cm (W)x6.76cm (D)
Weight:	7.6 kg

External I/O

COM:	Port x4 (RI/5V/ 12V by Jumper 232/422/485
LAN:	2 x RJ-45
VGA input:	1 x VGA
VGA / YPbPr:	1 x DB-15
On front 1.3 Megapixel camera Antenna hole x 3	
Audio:	Line-out, MIC-in, Line-in
USB:	4 x USB 2.0
Speaker:	2x2W

Display

Display Chipset:	Intel® D2550 Build inPCH : NM10
Graphic	Integrated Intel® CPU
Resolution:	Max Resolutions Up to 1440 x 900
Second Display:	VGA

Accessory Included: 1 x Power Adaptor, 1 x Power Cord (Europe), 1 x Pack of Screws, 1 x Driver CD, 1 x User's Quick Installation Guide
Note: The standard version DOES NOT come with 10-wire AMR Touch and desktop stand. Please contact us for pricing and lead-time.

Monitor IN
RJ-45 RS232x4
(COM2 option RS485/422)
Monitor RS232
Antenna
PRT
USBx6
Dual LAN
Cash Drawer
SIM Slot
VGA Out

HDD bay

Win7 support 10 Points Multi-Touch

Rich I/O ports

COM Port x4 (RI/5V/12V by Jumper) COM2 (232/422/485 by Jumper) RJ-11(Cash drawer 12V/19V by Jumper) Printer Port x1
USB 2.0 x6
GbE LAN RJ45 *2
5.1 CH Audio Jack (horizontal x 3)
DC 19V (AC Adaptor 19V/90W)
VGA input connector x1 from AD board
VGA output connector x1 from Motherboard (for Dual Display)

IP65 grade dust & waterproof panel

The system's robust structure makes it safe to install in even the most demanding environments.
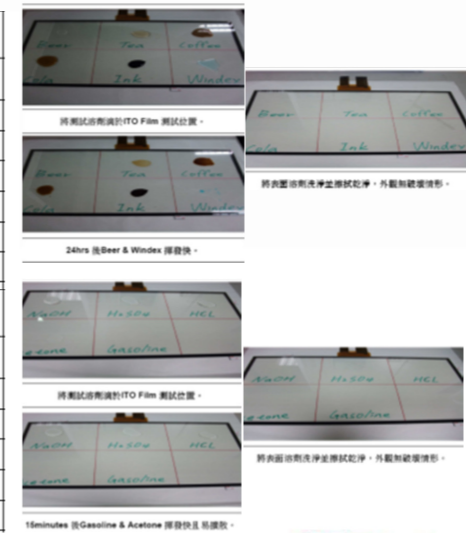
Fanless systems

Chemical Resistance
The active area of the touchscreen is resistant to the following chemicals when exposed for a period of one hour at a temperature of 70˚F (21˚C): Industrial Chemicals: Acetone, Methylene chloride, Methyl ethyl ketone, Isopropyl alcohol, Hexane, Turpentine, Mineral spirits, Unleaded Gasoline, Diesel Fuel, Motor Oil, Transmission Fluid, Antifreeze.

Test Data ASTM D 1308-87 for 24hrs		
Chemical	Chemical reaction	Judge
Beer	Pass	
Tea	Pass	
Coffee	Pass	
Cola	Pass	
Ink	Pass	
Windex	Pass	
Test Data eTT Standard for 15minutes		
Chemical	Chemical reaction	Judge
HCL	Pass	
H2SO4	Pass	
NaOH	Pass	
Gasoline	Pass	
Acetone	Pass	

Zenith18M-Z02
18.5" Wide Touch Screen Panel PC

Features

- **18.5 inch Wide Screen All-In-One Panel PC**
- **1366 x 768 resolution**
- **16:9 High Quality Wide Screen**
- **Supports Intel Dual-Core / Celeron Processor**
- **Intel NM70 chipsets**
- **Up to 16GB DDR3 DIMM 1600MHz System Memory**
- **External I/O: PS2 x2, USB x4, RJ-45 x2, audio x3, COM port x1, SATA 6Gb/s x1, SATA 3Gb/s x2,**
- **eSATA 3Gb/s x1 D-Sub x1, HDMI x1, IDE x1, Function Keys for Brightness & Volume Control**
- **Stereo Sound**
- **DC 12V Power**
- **Dimensions: 44.7cm (L) x 26.4cm (W) x 8.4cm (D)**
- **FCC / CE / UL Certified**

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System

CPU:	Intel Built-In Dual-Core Celeron 1037U
Chipsets:	Intel NM70 chipsets
System Memory:	DDR3-1600 DIMM x 2 (Max. 16GB)
Audio:	Realtek ALC887 Chipsets High Definition audio CODEC
Ethernet:	Dual RTL Giga LAN 8111Fx2
Drive Bay:	2.5"SATA III HDD Bay: x 1 Default: 500G (SATA II)
WiFi:	WiFi Module (optional)
Watchdog Timer :	TBD
H/W Status Monitor:	Monitoring System Temperature, Voltage with Auto Throttling Control

Display Screen

LCD Size:	18.5", 16:9
Display Type:	WXGA + TFT
Resolution:	1366x768
Luminance:	250 cd/m2
Contrast Ratio:	1000
Touch Screen:	Optional 5-wire Resistive Touch/ SAW multitouch (optional)

Mechanical and Environment

Installation/Mounting:	Wall / Stand / VESA 75mm x 75mm / 100mm x 100mm
Power Adapter:	Input: 100-240V ~ 2A 50-60Hz
	Output: 60W / 12V / 5A
Operating Temperature:	0 ~ 35°C (32 ~ 95°F)
Storage Temperature:	-10 ~ 50°C (14 ~ 122°F)
Operating Humidity:	0% ~ 90% Relative Humidity, Non-condensing
Dimensions:	47cm (L) x 30.2cm (W) x 8.4cm (D)
Weight:	4 kg

External I/O

COM:	1 x RS-232
LAN:	2 x RJ-45
HDMI:	1 x HDMI
VGA / YPbPr:	1 x DB-15
Audio:	Line-out, MIC-in, Line-in
USB:	4 x USB 2.0
Speaker:	2x2W
eSATA:	1 x eSATA

Display

Display Chipset:	Intel NM70 chipsets
Display Memory:	Integrated Intel CPU
Resolution:	Up to 1920x1200
Second Display:	HDMI/VGA

Accessory Included: 1 x Power Adaptor, 1 x Power Cord (Europe),1 x Driver CD, 1 x User's Quick Installation Guide
Note: The standard version DOES NOT come with SAW Touch and Zenith18M-Z02 designed stand. Please contact us for pricing and lead-time.

Extremely protected

3mm heat tempered anti-scratch glass touch screen with 7H hardness

IK07 Steel Ball Drop Test: 500 grams steel ball drop from height of 100 cm onto the center of the glass without breaking

Metal case and desktop stand

Flexible stand adjustment

Modular system
easy maintenance and motherboard replacement
Adjustable to any motherboard form factor

Ultimate cost effective solution
for using in public places for wide range of industries and applications

Faultless operation in continuous use

Panel PC Customization

Aplus also provides ODM and OEM services for Panel PC Solution. If you are interested in customizing Panel PC System based on our current models, and/or provide us with your specification requirements, please contact us at 886-2-87975223 or aplus@aplustec.com.tw.

Customization based on the existing model will benefit our customers saving time and cost during developing process. If your application requires different level of processing performance or require special I/O interfaces, our local R&D team is able to customize it for you according to your needs. If your application requires different colors or different materials of front and back frame such as white for medical environment or metal frame for factory or industrial automation environment, or ID design and ME team are able to assist with your requests as well.

Applications and Market Segments
- Point-of-Sale (POS): retail stores and restaurants
- Entertainment machines, Casino Video Slot, Bingo, Lottery
- Digital Signage: supermarkets, wholesale warehouses, department stores and train stations
- Information Kiosk: for public libraries, hotels, hospitals and museums
- Self-serve Kiosks/Self-Checkout Kiosk/ Self-Ticketing Kiosk: for supermarkets and airports, ATM Terminals, Movie Rental Kiosk
- Medical Imaging, fitness solutions

All models can be customized to customer's requirements