MiniPC Industrial AOpen DE7000 v.1

Category:	MiniPC Industry
Manufacturer:	AOpen
Supported OS:	Microsoft Windows: XP/Vista/7 , Linux
Installed OS:	No (Optional Windows 7/Vista/XP)
Chipset:	Nvidia MCP7A-LP
CPU Support:	Socket P - Intel Core 2 Duo (Penryn)
Installed CPU:	Intel® Core™2 Duo Processor T6400 (2M Cache, 2.00 GHz, 800 MHz FSB)
Graphic Card:	Integrated GeForce 9300 do 256 MB/64bit (16 shader processor, 600 Mhz memory, 800 Mhz shader)
Memory Support:	DDR3 SO-DIMM x 2 800/1066/1333MHz (up to 4 GB)
Installed Memory:	2GB DDR III 800MHz
Storage (HDD) Support:	2.5
Installed Storage (HDD):	320GB SATA II
IP Norm:	-----
Temp:	0 ~ 50°C (32 ~ 122°F)
Storage temperature:	-30 ~ 60°C (-22 ~ 140°F)
Humidity:	90% RH (40 °C non-Condensing)
Others:	Colour Black, Case: Steel
LAN:	Realtek Gigabit Ethernet/ 10/100/1000
Wireless LAN card:	No (Optional Yes)
3G:	-----
Bluetooth:	-----

Rear Panel (ports):	4x USB 2.0, e-SATA, HDMI, Audio 5.1, RJ-45, DC-in Jack, VGA, RS232,
Front Panel (ports):	2x USB 2.0
Expansion:	Multi Combo DVD/CD, WiFi card, HSDPA module
Power:	90W (20V, 4.5A)
Watch Dog Timer:	1 ~ 255 sec/min
CD/DVD Drive:	No (Optional Yes- Multicombo DVD/CD)
TV Tuner:	-----
Dimensions:	166 (W) x 48 (H)x 164.1 (D) mm
Fanless:	-----
Weight:	1,2kg

Product from the Archive - production finished

MiniPC Industrial AOpen DE 7000

Terms and Conditions:

- 1. Resistance on damage & small size ...
- 2. Advenced technology ...
- 3. Using & interface ...
- 4. Use ...
- 5. Recapitulation ...
- 6. Accessory in Box ...
- 7. **Energy saving and cost reducing...**

In ... ... eries ® has become very popular in China. Exhibition of International Digital Signage Show which was 25-27 June 2010 in Shanghai, nominate device Aopen Digital Engine DE 7000 "Best Media Player". Then AOpen DE 7000 was presented at the World Expo 2010 Exhibition which was hailed as the most practical and application platform in the world.

DIGITAL ENGINE the series of products AOpen firm dedicate to industrial use ...

Resistance on damage & small size ...

The AOpen Digital Engine DE7000 is a high performance Intel-based system in a 166mm x 48mm x 164.1 mm footprint that weighs less than 1.2 kg.

Environment specifications:

MTBF : 40,000 hrs

Operating Temperature : 0 ~ 50°C (32 ~ 122°F)

Storage Temperature : -30 ~ 60°C (-22 ~ 140°F)

Relative Humidity : 90% RH (45°C non-Condensing)

Operating Vibration : 0.5Grms, Random, 10~500Hz, X,Y,Z 3Axes, 0.5hr/Axis

Non-Operating Vibration : 2Grms, random, 10~300Hz, X,Y,Z 3Axes, 1hr/Axis

Operating Shock : 8G, half sine, 11ms duration, X,Y,Z 3Axes, 6Direction, 3 shocks/direction

Non-Operating Shock : 50G, Half sine, 11ms duration

The system has been especially developed as a non-spindle concept, meaning more reliability and zero noise. The AOpen heat pipe solution and aluminum fans create a reliable passive cooling that prevents dust intake and fulfills silent requirements.

Advenced technology …

the Nvidia MCP7A-LP chipset, AOpen Digital Engine features HDCP (high-definition copy protection), H.264 high-definition video acceleration and is full HD ready to offer 1080P perfect playback. AOpen Digital Engine DE7000 can operate two displays simultaneously for more complex digital signage applications. AOpen Digital Engine DE7000 is equipped with two DDRII SO-DIMM 800/1066/1333 memory slots supporting up to 4GB. The full range of AOpen digital engines is equipped with standard industrial PC features like, RS232, HDMI, 2 independent display ports and hardware controlled Watch Dog Timer (a tool to help the system to recover from fatal errors).

Using & interface ...

Front Panel :

1. USB 2.0 Ports   3. Multicombo CD/DVD

2. On/Off Switch

Rear Panel :

4. Port RS232	10. Speaker input, audio line input
5. Antenaa	11. Port e-SATA
6. Port RJ-45	12. USB 2.0 Ports
7. USB 2.0 Ports	13. HDMI connector
8. Speakers	14. VGA connector
9. Kensington Lock	15. DC-in Jack

Use ...

For thanks of use handles box, it many possibilites to mount Digital Engines - for example: in factory halls, with LCD / LED monitors, hipermarkets, shops, under table top and cars.
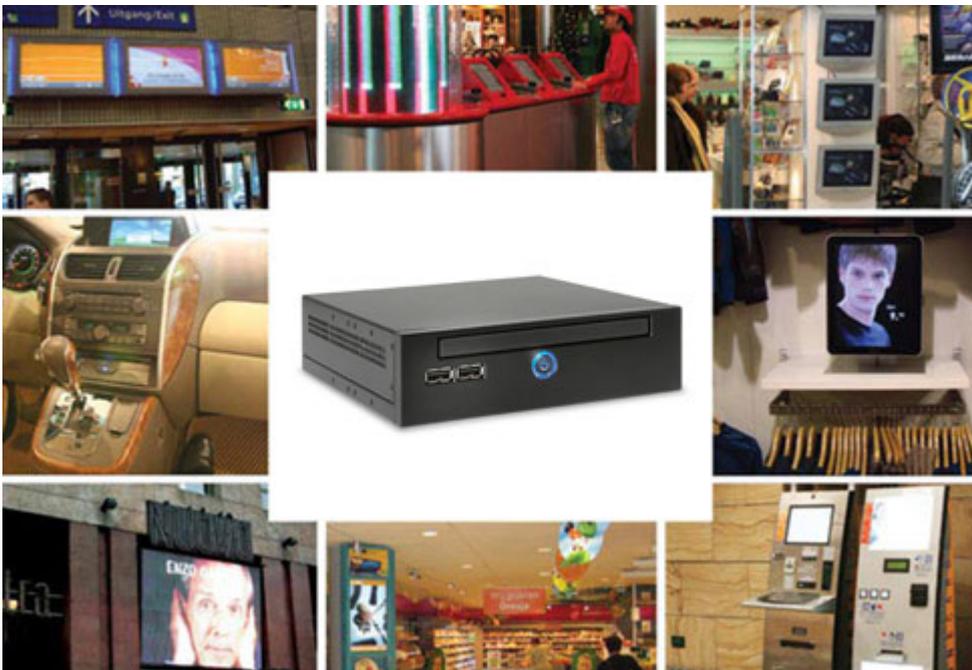
Recapitulation ...

AOpen Digital Engine DE7000 is a complete solution for Digital Signage, Projector PC, Media Player, and Vehicle PC. AOpen is a compact system of 1,3L with Nvidia MCP7A-LP Chipset supporting Intel socket P Core 2 Duo processors. The AOpen DE7000 had 40,000 hour MTBF and passed shock and vibration operation tests. It can be installed both vertically and horizontally without having thermal issues. AOpen DE7000 adapts mobile CPU, chipset and memory to reduce heat. With less heat, the speed of the fans will drop and create a silent working condition.

Accessory in Box ...

Energy saving and cost reducing

With energy cost saving in mind, AOpen Digital Engine DE 7000 supports the Intel Core™2 Duo Socket P "Penryn" series processor aiming for energy-efficiency. AOpen Digital Engine DE 7000 is one of the products from the AOpen Green Product range, complying with Energy Star 5.0. Energy Star is an officially recognized way to save money through energy efficiency and help the environment without sacrificing the performance. Energy Star standard has been developed to save energy at home and office. Through energy-efficient design of hardware and system components, there is a guarantee your system will use less energy to perform tasks, and will enter low-power modes, when not in use.

Energy Consumption (kWh)
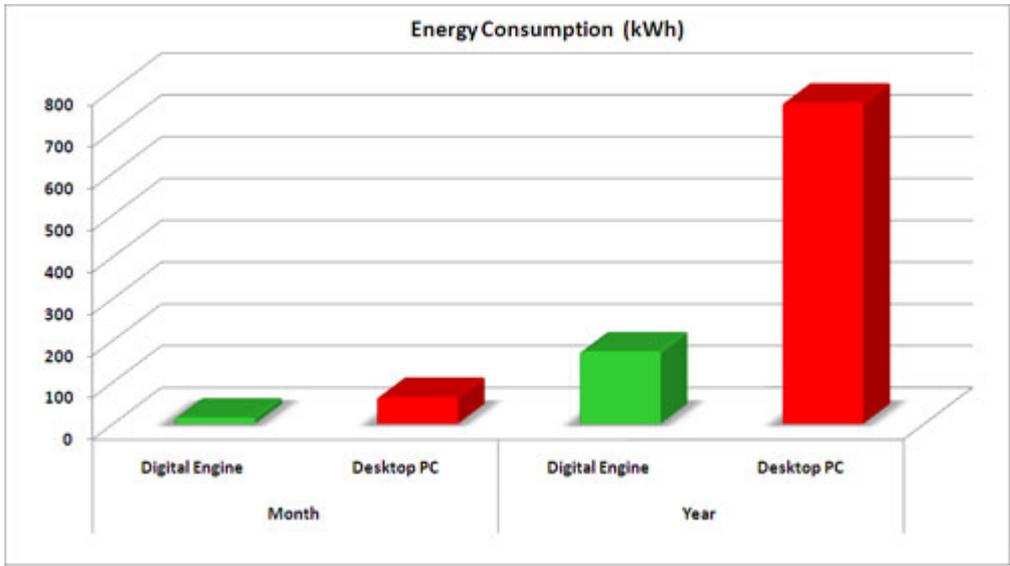
Assumption :
1) computers work after 8 hour daily
2) working 20 days in month
3) working 240 days in year

number of computer	Work Time		Energy Saving
	Day		
	Digital Engine	Standard PC	
	kWh	kWh	kWh
1	0,72	3,20	2,48
10	7,20	32,00	24,80
100	72,00	320,00	248,00
1000	720,00	3200,00	2480,00
5000	3600,00	16000,00	12400,00
number of computer	Month		Energy Saving
	Digital Engine	Standard PC	
	kWh	kWh	kWh
1	14,40	64,00	49,60
10	144,00	640,00	496,00
100	1440,00	6400,00	4960,00
1000	14400,00	64000,00	49600,00
5000	72000,00	320000,00	248000,00
number of computer	Year		Energy Saving
	Digital Engine	Standard PC	
	kWh	kWh	kWh
1	172,80	768,00	595,20
10	1728,00	7680,00	5952,00
100	17280,00	76800,00	59520,00
1000	172800,00	768000,00	595200,00
5000	864000,00	3840000,00	2976000,00