



Transformative Form Factor Solutions



INTRODUCING the DE45-HG

**A New Digital Engine™ from AOpen®
featuring the Intel® GM45 Chipset**

April 2009

DE45-HG Overview

DE45-HG

The Next-Generation Digital Engine™ from AOpen®



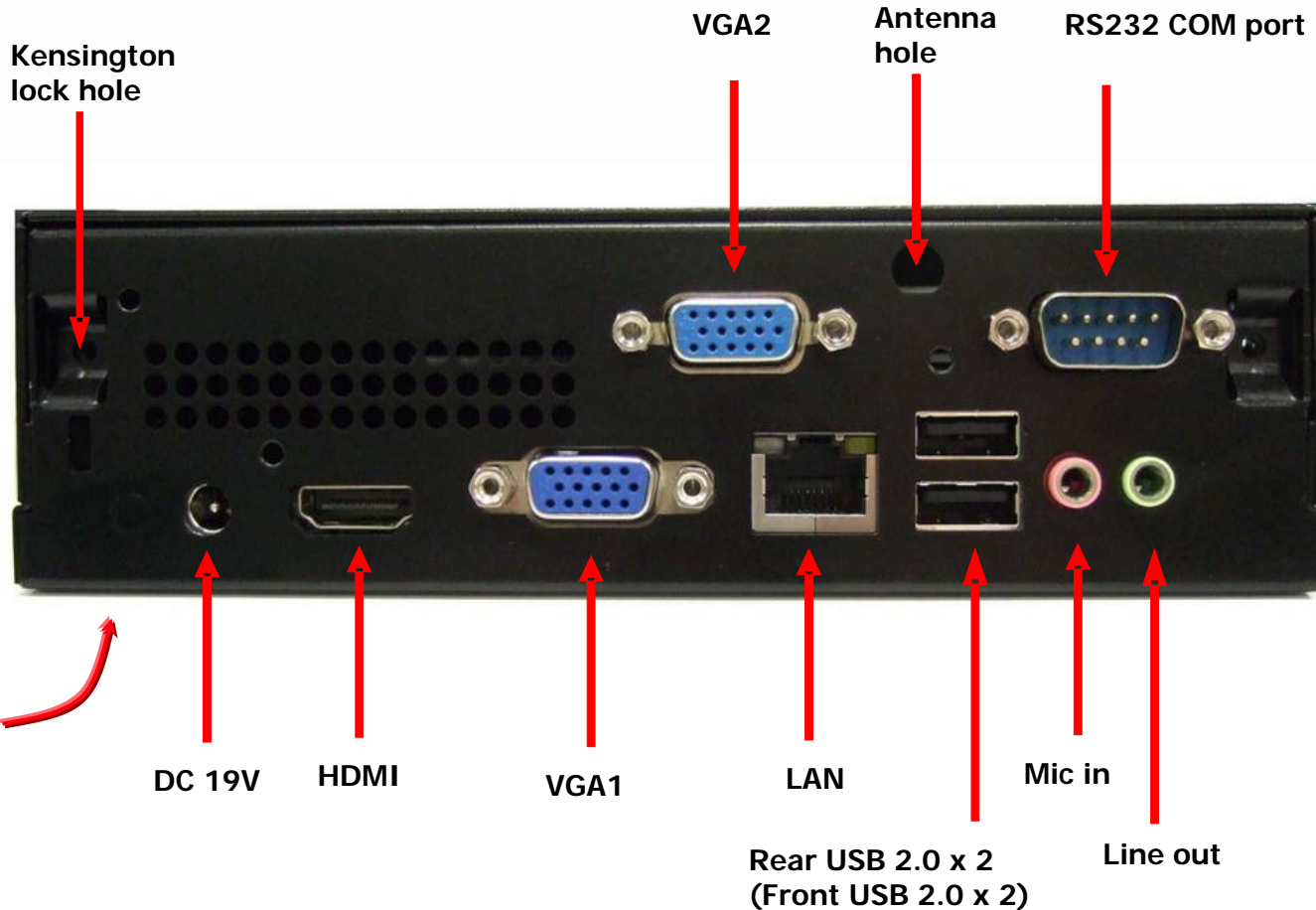
1.25L and 2.72lbs (net)
166mm x 157mm x 48mm
mini form factor

- ✓ **Intel® GM45+ICH9M Chipset**
- ✓ **Lightweight, Ruggedized Chassis for Commercial-Grade Environments**
- ✓ **Watchdog Timer**
- ✓ **Intel® Core™ 2 Duo (Merom/Penryn)**
- ✓ **GMA X4500 Graphics Engine Supports 1080p HD Video and Blu-ray Playback**
- ✓ **Microsoft® DirectX™ 10: Powers Seamless HD Video (no skipped frames)**
- ✓ **HDMI, RS232, USB 2.0 x 4, VGA x 2, 2.0 - Channel Surround Sound, MiniCard Slot**
- ✓ **SilenTek (≤ 27dB) Cooling and Low Heat Output**
- ✓ **Energy Savings – Uses Less than 90W**



DE45-HG Rear Panel

I/O strategy has been maximized on mini form factor to enable peripherals for digital signage, kiosks, mobile computer carts, smart digital projectors, surveillance systems, embedded PCs, ATM/POS, energy-efficient mini workstations and more.



THE NEXT GENERATION DIGITAL ENGINE™ PLATFORMS from AOpen®



EOL/EOM: 2009



Fanless

DE965-HG (Barebone)

DE45 (Barebone)

DEX4501 (Barebone)

Part #: 91.ADE01.I610

Part #: 91.ADE01.I510

Part #: 91.DE201.I510

Cost-efficient ruggedized media player powers HD digital signage and other mission-critical applications operating in commercial-grade environments - VESA mountable box with modular design for ease of assembly and disassembly

Next Generation Digital Engine™ with Noiseless Fan Cooling - Cost-efficient ruggedized solution - enables full HD and/or rich content Digital Signage with Intel® GM45 Chipset - also enables Bluetooth®/802.11n peripherals - Uses only 90W

Fanless 2.4L Digital Engine™ (GM45+ICH9M Chipset) supports 45nm Core™ 2 Duo (Penryn) - powers full 1080p HD with seamless motion and true-3D - innovative cooling reduces extra heat "fins" resulting in sleek, styling. Uses Less than 90W

FEATURES

Intel® GM965 (Santa Rosa Refresh)

Intel® GM45+ICH9M (Montevina)

Intel® GM45+ICH9M (Montevina)

Supports 4GB DDRII SO-DIMM x 2

Supports 4GB DDRII SO-DIMM x 2

Supports 4GB DDRII SO-DIMM x 2

GMA X3100 Graphics Engine

GMA X4500 Graphics Engine

GMA X4500 Graphics Engine

Ethernet 10/100/1000 Mbps

Ethernet 10/100/1000 Mbps

Ethernet 10/100/1000 Mbps

Microsoft® DirectX™ 9

Microsoft® DirectX™ 10

Microsoft® DirectX™ 10

Supports Bluetooth®

Supports Bluetooth®

Supports Bluetooth®

Supports 1080p HD

Supports Blu-ray, 1080p HD

Supports Blu-ray, 1080p HD

Watchdog Timer

Watchdog Timer

Watchdog Timer

VESA Mount Compatible

VESA Mount Compatible

Proprietary Mount (Included)

Titan 800 All-in-One Mount Compatible

Titan 800 All-in-One Mount Compatible

Titan 800 All-in-One Mount Compatible

USB 2.0, RS232, VGA x 2, HDMI, WLAN (Optional)

RS232, HDMI, USB 2.0 x 4, WLAN (Optional)

RS232, USB 2.0 x 8, HDMI, eSATA, 6-Port Audio, DVI, WLAN (Optional)

Supports Kensington® PC Locks

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Supports Kensington® PC Locks

Celeron CPU, Supports Intel Core Duo

Celeron CPU, Supports Intel Core Duo

Intel Penryn Core 2 Duo CPU

S-ATA Connector x 1 (for 2.5" HDD)

S-ATA Connector x 1 (for 2.5" HDD)

S-ATA Connector x 3

Ruggedized

Ruggedized

Ruggedized

3-Year Warranty Upgrade Available for All Models

Optional Mounting Solutions

Titan 800 (Digital Engine™ Lockable Slide Compartment Inside)

DIGITAL ENGINE All-in-One Mount

TITAN 800

AOPEN DESIGN CENTER
JASON C. CHEN & SAM JIANG

- ✓ Locked, Embedded Compartment (Slide In/Out) for a Digital Engine™
- ✓ Quick Installation (Ceiling or Wall)
- ✓ Easy Cable Management
- ✓ Durable Construction for Commercial-Grade Environments






Mount Type	Tilt (+20/0) Wall or Ceiling Mount
Display Size	42"-65"
Load Capacity	80kg, 176lbs
Mount Weight	13kg
Exterior	Black, Scratch-Resistant Fused Epoxy
Dimensions	800 x 520 x 126.5mm
Universal Adapter Hole Pattern (WxH)	734 x 500mm
Depth from Wall	126.5mm
Security	Locked, Embedded Compartment
Certifications (undergoing testing)	UL, VESA-compatible
Extras	Bubble Level, Cable Management, Key Lock, Carrying Handle






Locked Embedded Compartment
Slide In/Out without Moving Display

AOpen

Digital Engine Holders

Accessories			
Digital Engine Holder			
Model Name	LH01	LH02	ST01
AOpen P/N	59.ADE01.0010	60.ADED6.0010	59.ADE02.0010
Product Picture			
Form Factor	Aopen Proprietary Dimension	Aopen Proprietary Dimension	Aopen Proprietary Dimension
Application	Horizontal Application Vertical Application	Horizontal Application Vertical Application	Vertical Application
Support Model	DE965-HG	DE965-HG	DE965-HG
	DE-945CD		DE-945CD
		DE-945FL	DE-945FL
		DE896-FL	DE896-FL
	DE-945FX		DE-945FX
	DE45-HG	DE45-HG	DE45-HG

More Digital Engine Holders

Accessories			
Digital Engine Holder			
Model Name	VM02	VM03	VM04
AOpen P/N	59.ADE03.0110	59.ADE03.0210	90.ADE28.0010
Product Picture			
Form Factor	VESA Standard	VESA Standard	VESA Standard
Application	Mount Digital Engines on the back of displays with 75 x 100mm VESA FDMI (Flat Display Mounting Interface) compatible holes.	Mount Digital Engines on the back of displays with 75 x 100mm VESA FDMI (Flat Display Mounting Interface) compatible holes.	Mount Digital Engines on the back of displays with 75 x 100mm VESA FDMI (Flat Display Mounting Interface) compatible holes.
Support Model	DE965-HG	DE965-HG	DE965-HG
	DE-945CD	DE-945CD	DE-945CD
	DE-945FL		
	DE896-FL		
	DE945-FX	DE945-FX	DE945-FX
	DE45-HG	DE45-HG	DE45-HG



<http://usa.aopen.com>

**Critical Performance
on a Scalable Platform**



The DE45-HG Digital Engine (Barebone System)

- ▶ ***Ruggedized media engine – thermal & shock-resistant***

Empower mission-critical digital signage on ruggedized, scalable Digital Engine™ platforms from AOpen®. Easy assembly and disassembly.

- ☑ ***See Crisp HD Video via Intel® GMA X4500 and Microsoft® DirectX 10***
- ☑ ***Best-in-Class Expandability for Wireless and Peripherals***
- ☑ ***Intel® GM45 Chipset – Supports Intel® Core™ 2 Duo, 2GB DDRII x 2***
- ☑ ***SilenTek™ Cooler (≤ 27dB)***
- ☑ ***Watchdog™ Timers: frozen screen auto-undo capability***
- ☑ ***VESA Mount Compatible***