

DS-370

Intel® Celeron® J1900 Quad-Core Fanless Digital Signage Player



Introduction

Advantech's DS-370 is a low-power, fanless digital signage player that supports full HD dual displays. DS-370 is also equipped with a rich I/O interface for devices or wireless module connection and features a slide-in chassis design for easy maintenance. To enable easy signage network management, DS-370 comes bundled with dedicated signage software, WebAccess/IMM, and WISE-PaaS/RMM remote device management software, allowing the customer to manage digital signage networks installed in multiple locations with less effort at no extra cost. DS-370 provides the ideal cost-effective solution for single or dual-display applications in public spaces.

Specifications

Processor System	CPU	Intel® Celeron® J1900 quad-core 2.0 GHz SoC processor
	BIOS	AMI uEFI 64-Mbit
Memory	Technology	DDR3L 1333 MHz
	Socket	2 x 204-pin SODIMM*
	Max. Capacity	8 GB (up to 4 GB per SODIMM)
Display	Processor Graphics	Intel® HD Graphics
	Max. Resolution	VGA: 2048 x 1280 @ 60Hz HDMI: 1920 x 1080 @ 60Hz DP++: 1920 x 1080 @ 60Hz
	Output	Dual displays
	Graphics Engine	DirectX® 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 Encode: H.264, MPEG2/4, VC1, WMV9 Decode: H.264, MPEG2
	SATA	1 x 2.5-inch SATA II HDD/SSD (7 mm height)
Storage	Others	mSATA, via the mini PCIe slot**
	Ethernet	Gigabit LAN controller Intel i211
I/O Interface	HDMI	1
	DP++	1
	VGA	1
	LAN	2
	USB 2.0	3
	USB 3.0	1
	Audio	1 x Mic In, 1 x SPDIF/ Line Out (supports jack sensing via OS settings)
	Serial Ports	2 x RS-232
	Mini PCIe	2 x Full-size mini PCIe
	SIM Socket	1 x SIM card (optional)
	Power Input	1 (DC-in jack)
Power Requirement	Management	ACPI 3.0
	Power Consumption	Idle mode: 4.39 W (w/o expansion) Full mode: 10.85 W (w/o expansion)
	Input Voltage	19 V DC in (ATX/AT mode, default ATX)
	Others	Supports boot on power restore and scheduled boot up functions
	Watchdog Timer	Output: Interrupt, system reset Interval: Programmable by SUSIAccess
Physical Characteristics	Mounting	Supports VESA/DIN rail/wall mounting (optional)
	Dimensions (W x D x H)	204 x 118.2 x 44.2 mm
	Weight	1.275 kg
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F) (w/HDD), 0 ~ 50 °C (32 ~ 122 °F) (w/SSD, Tc spec. need above 85°C)
	Relative Humidity	95% @ 40 °C (non-condensing)
	Random Vibration	1 Grms /5-500Hz /Operation
	Shock	10G (11ms)/Operation, 30G (11ms)/Non-operation
Software Support	Microsoft Windows	WE7E, Windows 7, WE8S, Windows 8
	Linux	Linux Fedora 20
Certification	EMC	CE/FCC Class B, CCC, BSMI
	Safety	UL, CB, CCC, BSMI (No RED certification)

*If only one RAM, please insert it into the SODIMM 1 slot before booting up.

**64 GB of onboard micro SSD: Supported by 1-part processes.

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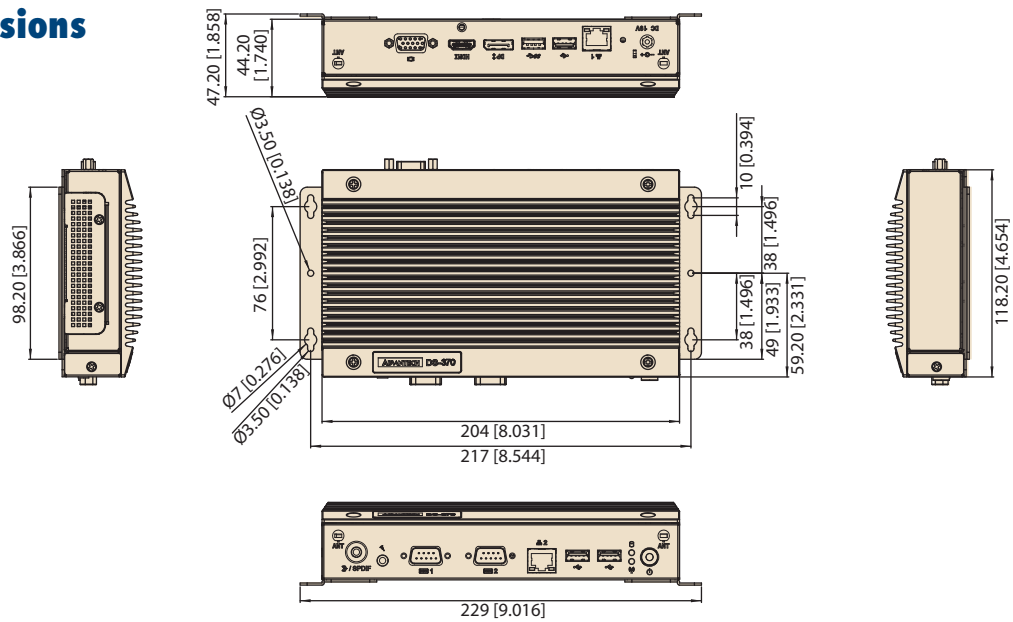
Digital Signage Player

All product specifications are subject to change without notice.

Last updated: 4-Dec-2020

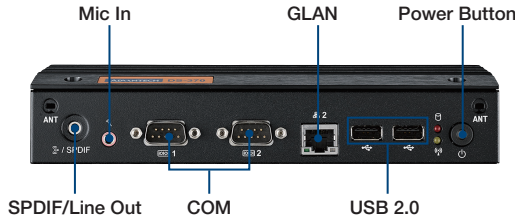
Dimensions

Unit: mm [inch]

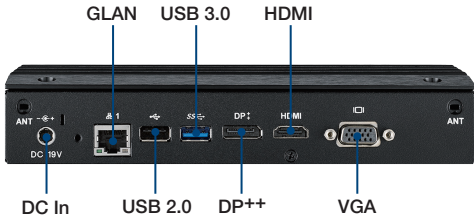


DS-370 External I/O

Front



Rear



Packing List

Part Number	Description
-	1 x DS-370 unit
-	1 x Power adapter (DC 19 V/3.42A 65 W)
-	1 x Bracket set for fixing power adapter plug
-	2 x Mounting brackets
-	1 x User manual
-	1 x Content management software

Power Cord

Part Number	Description
1700001524	3-pin power cord (US)
170203183C	3-pin power cord (EU)
170203180A	3-pin power cord (UK)
1702031836	3-pin power cord (AU)
1700008921	3-pin power cord (Japan)
1700019146	3-pin power cord (China)

Ordering Information

Part Number	Description
DS-370GB-U0A1E	DS-370, Intel J1900, barebone unit
DS-370GF-U0A1E	DS-370, Intel J1900, 64GB 2.5" SATA SSD, 4G RAM
DS-370GQ-U0A1E	DS-370, Intel J1900, 64GB 2.5" SATA SSD, 4G RAM, WES7E

Mounting Kits

Part Number	Description
AMK-V005E	VESA mount kit (generic for ARK-DS/DS)
AMK-V012E	DS-3XX ARM/VESA mount kit
AMK-V017E	DS products VESA with Din Rail bracket

Embedded OS

Part Number	Description
2070013687	Image DS-370 WES7E x64 v5.6.8 EN/TC/SC/JP
2070013688	Image DS-370 WES7P x64 v5.6.6 10MUI
2070013356	Image WE8S DS-370 V6.5.2 10 multi
2070014786	img W10 16EL DS-370 64bit 1609 Eng

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