Turnkey Signage Solutions

Empowering Connected Signage Applications

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ADVANTECH

Enabling an Intelligent Planet

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▶ Empowering Connected Signage Solutions

Digital Out Of Home (DOOH) advertising is widely deployed in a range of fields such as retail, public transportation, education and hospitality, and has become an important part of the marketing landscape. Implementing and planning sophisticated digital signage networks can be challenging, so Advantech has developed ready-made HW/SW signage solutions to help ease of deployment. Our turnkey signage solutions have empowered thousands of digital signage applications across every market.

Advantech's turnkey signage solutions combine highly reliable platforms with application-ready software. All digital signage players come pre-loaded with an embedded OS, and at no extra cost, Acronis data protection, McAfee system security, and SUSIAccess Signage software. Advantech helps customers reduce complexity and capitalize on digital signage networks which means faster time-to-market and lower total cost of ownership.

Signage Management

Real-time Message

Multimedia

System Protection

Remote KVM

System Recovery

Remote On/Off

Remote Monitoring

Playlist

Scheduling

Management Software and API

SUSIAccess
Enabling Intelligent & Embedded Systems

McAfee

Acronis

OS Compatibility

Windows Embedded
Gold Partner

Linux

ANDROID

Solutions Integrated with Eco-Partners

Advantech is building a digital signage alliance of strategic partners made up of leaders in each of their respective areas from networking, software, display, content to installation, creating a winning combination you can rely on.

Silicon

intel IoT Solutions Alliance Premier

NVIDIA

AMD Embedded Solutions PARTNER

ATi Radeon

Display

MITSUBISHI ELECTRIC DIGITAL TELEVISIONS

TOSHIBA

Software

WM TECHNOLOGIES

WebAccess+IMM

signagelive
delivering media to your screens

DISE

NAVORI

Cnario

Network

BROADCOM

AVerMedia

AzureWave
AzureWave Technologies, Inc.

AboCom
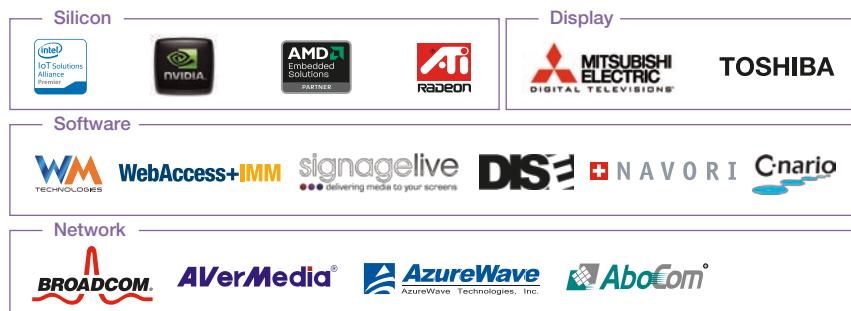
A Complete Product Range for Every Application

	Cost Effective	Open Pluggable Specification	Ultra Slim	Graphic Enhanced	Multi-Display
	DS-370	**ARK-DS262**	**DS-060**	**DS-570**	**DS-862**
CPU	Intel® Celeron® J1900	3rd Gen. Intel® Core™ i7/i3/ Celeron®	3rd Gen. Intel® Core™ i7/i3/ Celeron®/Atom™	Intel® Celeron® N2930/J1900	3rd Gen. Intel® Core™ i7/i3/ Celeron®
Supported File Format	JPEG H. 264 VC1 WMV9 MPEG2 DivX 3.11 MPEG4 Part 2 SP MPEG4 ASP Flash	JPEG H. 264 VC1 WMV9 MPEG2 DivX 3.11 MPEG4 Part 2 SP MPEG4 ASP Flash	JPEG H. 264 VC1 WMV9 MPEG2 DivX 3.11 MPEG4 Part 2 SP MPEG4 ASP Flash	JPEG H. 264 VC1 WMV9 MPEG2 DivX 3.11 MPEG4 Part 2 SP MPEG4 ASP Flash	JPEG H. 264 VC1 WMV9 MPEG2 DivX 3.11 MPEG4 Part 2 SP MPEG4 ASP Flash
Max. Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	3840 x 2160 @ 30 Hz	3840 x 2160 @ 30 Hz
Display	2	2	2	4	4
Fan/Fanless	Fanless	Fan	Fan / Fanless	Fanless	Fan

Advanced Designs

Compact Design
- Compact size for easy installation
- Supports optional DIN-Rail, VESA, and wall mounting

Variety of Communication
- Flexible expansion via MiniPCIe
- Slot for WiFi, 3G

Rich Display Output
- Supports HDMI, DP, DVI, VGA
- UHD/FHD/HD resolution of diversified format content

Software Integrated
- Embedded OS compatibility
- Data protection and system security
- Content management software built-in

Value-Added Integration Services

Wifi Module

AMO-WIFI07E
- Atheros AR9462
- Coaxial cable and antenna

3G Module

AMO-HSDPA02E
- U-blox LISA-U200-01S
- Coaxial cable and antenna

Storage Module

AMO-SS01E
- 64G SQFlash SSD
- Content management software

Ultra Wide Displays

DSD-5000
- 28", 38" size options
- VGA/DVI

Large Format Displays

DSD-3000
- 32", 42", 55" size options
- HDMI/VGA/DP

Remotely Manage Your Digital Signage Networks

SUSIAccess Signage is a smart and sophisticated software suite designed for managing digital signage networks from content management and remote monitoring, to system security and remote dispatch. Customers can remotely manage multiple signage devices on the client side through a single console. The software is bundled with all Advantech digital signage players, providing customers with application-ready platforms.

Signage Management | Real-time Message | Multimedia | Remote KVM | Scheduling

System Protection | Remote On/Off | Remote Monitoring | Playlist

SUSIAccess
Enabling Intelligent & Embedded Systems

Internet/ Intranet/ VPN

IT Central Control Room

SUSIAccess Remote Device Management

Key Features

Content Editor
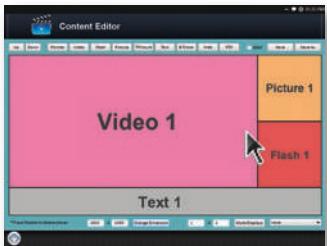
Layout Editing
- Easy drag and drop for multi-zone layout
- Multimedia: video, image, marquee, text, web, flash
- 2x2, 1x3, 1x4 video wall solutions

Playlist Editing
- Create playlists by uploading assets onto the timeline
- Preview the playback of your content template

Scheduling
- A calendar graphic view to schedule your playlist
- Regular schedule on daily basis
- Time correction in seconds

Signage Manager
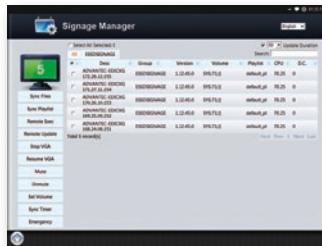
Status Monitoring
- Real-time device status monitoring such as device name, volume, CPU loading, and playlist update status

Remote Control
- Capabilities: volume, display on/off, scheduled sync
- Real-time playlist syncing
- Create urgent messages for immediate playback

Remote Management
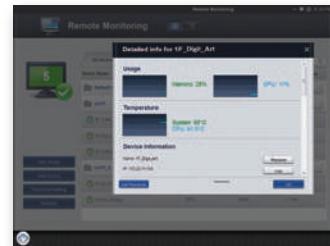
Remote Monitoring
- Real-time monitoring of device's status
- Automatic alarm notification via email or SMS

Active Control
- Remote KVM for quick access to devices for diagnosis and troubleshooting
- Power on/off schedule setting for energy saving

System Security
- Whitelist protection   **McAfee**

System Recovery
- Timely backup and recovery   **Acronis**

Case Studies

Multi-display Video Walls Encourage Purchasing Decisions

Project

Video wall applications have become more and more popular due to their immense impact on viewers. Eye-catching video walls with engaging content can attract audiences and have a huge impact on consumers purchasing decisions becoming an essential marketing ingredient for the retail sector, especially in shopping malls. A System Integrator customer in Russia needed a powerful media player which could drive content for a screen matrix of 4 displays. They also needed robust management software which enabled multiple content to be displayed on the four screens or span the entire video wall display as required.

Requirements

- Powerful graphics engine supporting four displays
- Integrated with signage software
- Compact, low profile for easy installation
- Windows® 7 Professional

System Solution

Most video wall players consist of a motherboard with a graphic board to power the graphics, assembled in a rugged chassis. However, customers often struggle with configuration and the high cost of integration of hardware and software. Advantech DS-862 Digital Signage Player, combines a 3rd generation Intel® Core™ i7 CPU with discrete AMD Radeon™ E6460 GPU graphics to drive 4 screens via 4 DisplayPort and the most intricate content up to 3840 x 2160 @ 30hz per screen. As small a footprint as a notebook, DS-862 can be easily integrated and hidden behind the screen. With content management software built-in, DS-862 simplifies multi-display deployment. Each display can be configured to have unique content, meanwhile flexible configurations such as 1 x 4, 4 x 1, and 2 x 2 content displays are supported. DS-862 breaks down the barriers to video wall adoption by providing a hardware and software integrated solution saving at least 20% on total cost of ownership.

Intelligent Wayfinding Signs Enhance Drivers' Experience

Project

Misleading inaccurate sign posts that display only the number of available parking spaces provide only limited assistance, that's why many parking lots these days use digital signage to indicate available parking spaces. For this project, the customer wanted to construct an intelligent parking service system at their company facilities. The required system needed to identify and record all visitor information, display a welcome message with a diagram showing the location of the appointed parking space and all visitor information to be transmitted to a central control room for security purposes. Advantech's digital signage players and displays satisfied all of the customer's requirements for real-time information and multiple displays.

Requirements

- Real-time information displays
- Powerful displays that support up to four outputs
- Fanless and compact design
- Easy maintenance and management

System Solution

Numerous large-screen displays connected to an Advantech DS-570 digital signage player were installed at the parking lot entrance and aisles. Powered by an Intel® Celeron® N2930/J1900 quad-core processor with an integrated NVIDIA GeForce GT 730M graphics module, DS-570 supports not only ultra-high-definition content, but also up to four simultaneous display outputs via DP^{++}*1, HDMI*2, and VGA. Thus, the use of DS-570 drastically reduced installation costs. After visitors' vehicles are identified, real-time parking information is transmitted to the digital signage displays and central control room via a network connection provided by DS-570. Once the visitor's information is confirmed, a welcome message with a diagram showing the appointed parking space will be displayed. The DS-570 player was equipped with content management software that facilitates the creation, dispatch, and management of multimedia content to provide a hardware/software ready signage solution.

► Product Selection

Digital Signage Players

Model Name		DS-060/DS-061	DS-062	DS-063/DS-065	ARK-DS262	DS-270
Processor System	CPU	Intel Core i7-3615QE/ Intel Core i7-3517UE/ Intel Core i3-3217UE	Intel Celeron 1020E/ Intel Celeron B810E	Intel Atom D2550/ Intel Atom N2600	Intel Core i7-3555LE/ Intel Core i3-3217UE/ Intel Celeron 1020E	Intel Celeron J1900
	BIOS	AMI uEFI 64 Mbit	AMI uEFI 64 Mbit	AMI uEFI 16 Mbit	AMI uEFI 64 Mbit	AMI uEFI 64 Mbit
	Chipset	Intel QM77	Intel QM77	Intel NM10	Intel QM77	CPU Integrated
Memory	Technology	DDR3 1333/1600MHz	DDR3 1066/1333/1600MHz	DDR3 800/1066 MHz	DDR3 1066/1333/1600MHz	DDR3L 1333/1600 MHz
	Max. Capacity	8 GB	8 GB	4 GB/2 GB	16 GB (8 GB per SODIMM)	8 GB (4 GB per SODIMM)
	Socket	1 x 204-pin SODIMM	1 x 204-pin SODIMM	1 x 204-pin SODIMM	2 x 204-pin SODIMM	2 x 204-pin SODIMM
Display	Controller	CPU Integrated	CPU Integrated	CPU Integrated	CPU Integrated	NVIDIA GeForce GT 730M
	Graphic Engine	Intel Integrated HD 4000	Intel HD Graphics	Intel GMA 3650	Intel Integrated HD 4000	-
	Graphic Memory	1 GB	1 GB	1 GB	1 GB	1GB (on board)
	Multiple Display	Dual	Dual	Dual	Dual	Dual
	Interface	DP x 1, VGA x 1	DP x 1, VGA x 1	HDMI x 1, VGA x 1	JAE TX25 80-pin x 1, HDMI x 1	JAE TX25 80-pin x 1, HDMI x 1
Expansion	Mini PCIe	1	1	1	1	1
Ethernet	Connector	Gigabit Ethernet port x 1	Gigabit Ethernet port x 1	Gigabit Ethernet port x 1	Gigabit Ethernet port x 1	Gigabit Ethernet port X1
Audio	Audio Interface	HD Audio	HD Audio	HD Audio	HD Audio	HD Audio
	Connector	2 (Line-out, Mic-in)	2 (Line-out, Mic-in)	2 (Line-out, Mic-in)	1 (Line-out), supports Jack Sense	1(Line-Out) Supports Jack Sense
WatchDog Timer		Yes	Yes	Yes	Yes	Yes
Storage	SATA	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA III HDD	1 x 2.5-inch SATA II HDD
	mSATA	Yes	Yes	Yes	-	Yes
	CFast	-	-	-	-	-
I/O	USB3.0	2	2	-	2	2
	USB2.0	2	2	4	-	-
	COM Port	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)
	Power Button	1	1	1	1	1
	Smart Fan	Yes	Yes		Yes	Yes
Power	Power Type	ATX, AT	ATX, AT	ATX, AT	ATX	ATX
	Power Consumption	8.1W (Idle)/ 26.0W (Full Load) *with Core i7-3610QE	10.0W (Idle) / 19.9W (Full Load)	11.3W (Idle)/ 16.5W (Full Load) *with Atom D2550	15.25W (Idle) / 28.61W (Full Load)	TBD
	Power Adaptor	Input 100-240V$_{AC}$, Output 19V$_{DC}$, 65W	Input 100-240V$_{AC}$, Output 19V$_{DC}$, 65W	Input 100-240V$_{AC}$, Output 19V$_{DC}$, 65W	-	-
Environment	Operational Temperature	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)
Physical Characteristics	Dimensions (L x W x H)	180 x 190 x 19 mm	180 x 190 x 19 mm	180 x 190 x 19 mm	200 x 119 x 30 mm	200 x 119 x 30 mm
	Weight	0.87 kg (1.92 lb)	0.87 kg (1.92 lb)	0.87 kg (1.92 lb)	1.5 kg (3.3 lb)	1.5 kg (3.3 lb)
	Mounting	VESA/ Desk/ Wall/ Din Rail	VESA/ Desk/ Wall/ Din Rail	VESA/ Desk/ Wall/ Din Rail	-	-
Operating System	Microsoft Windows	Yes	Yes	Yes	Yes	Yes
	Linux	Yes, Fedora 14	Yes, Fedora 14	Yes, Fedora 16	Yes, Fedora 14	Yes, Fedora 16
APIs	SUSIAccess Signage	Yes, McAfee, Acronis	Yes, McAfee, Acronis	Yes, McAfee, Acronis	Yes, McAfee, Acronis	Yes, McAfee, Acronis
	iManager	Yes	Yes	Yes	Yes	Yes
Certifications	EMC	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI
	Safety	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI	UL, CCC	UL, CCC

Content Management Software

Console   **Agent**

❶ Set-up
- Supports Windows 7 OS image
- Install Console/Agent application and necessary codec
- Connect agent to console and activate it by license key

❷ Design
- Calendar view for scheduling
- video wall: 1x1, 2x2, 1x3, 1x4
- Design layout and assign content
- Format support: video, image, marquee, text box, web, flash, PDF
- Preview support

❸ Sync & Play
- Player's clock synchronization
- Automatically sync files every 5 minutes
- Remote VGA output on/off, power on/off, and KVM
- Emergency messaging

Product Selection

Digital Signage Players

Q1 2015

Model Name		ARK-DS306	DS-370	DS-570	ARK-DS762	DS-862
Processor System	CPU	AMD G-Series T40N	Intel Celeron J1900	Intel Celeron N2930/J1900	Socket rPGA 988B	Intel Core i7-3555LE/ Intel Core i3-3217UE/ Intel Celeron 1020E
	BIOS	AMI uEFI 16 Mbit	AMI uEFI 64 Mbit	AMI uEFI 64 Mbit	AMI uEFI 64 Mbit	AMI uEFI 64 Mbit
	Chipset	AMD A50M FCH	CPU Integrated	CPU Integrated	Intel QM77	Intel QM77
Memory	Technology	DDR3 800MHz	DDR3L 1333/1600MHz	DDR3L 1333/1600 MHz	DDR3 1066/1333/1600MHz	DDR3 1066/1333/1600MHz
	Max. Capacity	4 GB	8 GB(4 GB per SODIMM)	8 GB(4 GB per SODIMM)	16 GB(8 GB per SODIMM)	16 GB(8 GB per SODIMM)
	Socket	1 x 204-pin SODIMM	2 x 204-pin SODIMM	2 x 204-pin SODIMM	2 x 204-pin SODIMM	2 x 204-pin SODIMM
Display	Controller	AMD Radeon HD6290	CPU Integrated	NVIDIA GeForce GT 730M	CPU Integrated	AMD Radeon E6460
	Graphic Engine	-	Intel HD Graphics	-	Intel Integrated HD 4000	-
	Graphic Memory	Shared system memory	Shared system memory	1 GB (On board)	1 GB	512 MB (On board)
	Multiple Display	Dual	Dual	Four	Triple	Four
	Interface	HDMI x 1, VGA x 1	HDMI x 1, DP^{++} x1, VGA x1	HDMI x 2, DP^{++} x 1, VGA x 1	HDMI x 3	DP x 4
Expansion	Mini PCIe	1	2, support SIM slot on board	2, support SIM slot on board	1	1
Ethernet	Connector	Gigabit Ethernet port x 2	Gigabit Ethernet port X2	Gigabit Ethernet port x 2	Gigabit Ethernet port x 1	Gigabit Ethernet port x 1
Audio	Audio Interface	HD Audio	HD Audio	HD Audio	HD Audio	HD Audio
	Connector	3 (Line-in, Line-out, Mic-in)	1(SPDIF/Line-Out),1(Mic-In) Supports Jack Sense	1(SPDIF/Line-Out),1(Mic-In) Supports Jack Sense	1 (Line-out) supports Jack Sense	1 (Line-out) supports Jack Sense
WatchDog Timer		Yes	Yes	Yes	Yes	Yes
Storage	SATA	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA II HDD 1 x 64G onboard flash memory	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA III HDD
	mSATA	Yes	Yes	Yes	Yes	-
	CFast	1	-	-	1	-
I/O	USB3.0	-	1	1	1	4
	USB2.0	2	3	3	2	-
	COM Port	2 (RS-232)	2 (RS-232)	2 (RS-232)	1 (RS-232)	1 (RS-232)
	Power Button	1	1	1	1	1
	Smart Fan	-	-	-	Yes	Yes
Power	Power Type	ATX, AT	ATX, AT	ATX, AT	ATX, AT	ATX
	Power Consumption	9W(Idle) / 13W(Full Load)	TBD	9.7W(Idle)/22.6W(Full Load) *with J1900 CPU	17.4W(Idle) / 43.8W(Full Load) * with Core i7-3610QE CPU	10W(Idle) / 37W(Full Load)
	Power Adaptor	Input 90-264 V$_{AC}$, Output 12 V$_{DC}$, 36W	Input 100-240V$_{AC}$, Output 19V$_{DC}$, 65W	Input 100-240 V$_{AC}$, Output 19V$_{DC}$, 65W	Input 100-240 V$_{AC}$, Output 19 V$_{DC}$, 90W	Input 100-240 V$_{AC}$, Output 19 V$_{DC}$, 65W
Environment	Operational Temperature	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)	0 ~ 40° C (32 ~ 104° F) (w / HDD)
Physical Characteristics	Dimensions (L x W x H)	204 x 118.2 x 44.2 mm	204 x 118.2 x 44.2 mm	220 x 150 x 44.2 mm	250 x 190 x 35 mm	250 x 190 x 35 mm
	Weight	1.1 kg (2.42 lb)	1.1 kg (2.42 lb)	1.7 kg (3.74 lb)	2.0 kg (4.41 lb)	2.0 kg (4.41 lb)
	Mounting	VESA/ Desk/ Wall/ Din Rail	VESA/ Desk/ Wall/ Din Rail	VESA/ Desk/ Wall/ Din Rail	VESA/ Desk/ Wall/ Din Rail	VESA/ Desk/ Wall/ Din Rail
Operating System	Microsoft Windows	Yes	Yes	Yes	Yes	Yes
	Linux	Yes, Fedora 14	Yes, Fedora 20	Yes, Fedora 16	Yes, Fedora 14	Yes, Fedora 14
APIs	SUSIAccess Signage	Yes, McAfee, Acronis	Yes, McAfee, Acronis	Yes, McAfee, Acronis	Yes, McAfee, Acronis	Yes, McAfee, Acronis
	iManager	Yes	Yes	Yes	Yes	Yes
Certifications	EMC	CE, FCC Class A, CCC, BSMI	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI	CE, FCC Class B, CCC, BSMI
	Safety	UL, CCC, BSMI	UL, CCC, BSMI	UL, CB, LVD, CCC, BSMI	UL, CCC, BSMI	UL, CCC, BSMI

Wireless Modules

Model Name	AMO-WIFI06E	AMO-WIFI07E	AMO-HSDPA02E
Form Factor	Half-size Mini PCIe	Half-size Mini PCIe	Full-size Mini-PCIe w/ SIM slot
Wireless Standard	IEEE 802.11 b/g/n	IEEE 802.11 a/b/g/n	-
Band	Single (2.4GHz)	Dual (2.4/ 5GHz)	6-band WCDMA
Bluetooth	-	4.0	-
Tx/Rx	1Tx/1Rx	2Tx/2Rx	-
Data Rate	up to 150Mbps	up to 300Mbps	Packet Switched: up to 7.2Mbps Circuit Switched: up to 64 kb/s
MiniPCIe Card Interface	PCIe Signal rev. 1.1& 1.2	PCIe Signal rev. 1.2	USB Signal
Operating Temprature	0 ~ 80° C	-10 ~ 70° C	-40 ~ 85 ° C
Operating System	Windows 8/ 7/ Vista/ XP	Windows 8.1/ 8/ 7/ Vista/ XP/ Linux	Windows XP/ Vista/ 7/ ARM WinCE/ Linux/ Mac
Certifications	FCC, IC, CMIIT, India, CE, NCC	FCC, CE	FCC, CE(for embedded only, not for module)
Antenna	50 Ohm RP-SMA male; 109 mm	50 Ohm RP-SMA male; 109 mm	50Ohm SMA male; 109 mm
Cable	50 Ohm RP-SMA female; 230 mm	50 Ohm RP-SMA female; 230 mm	50Ohm U.FL female/ SMA female; 250 mm

Wireless Modules

Model Name		AMO-SS01E
SQFlash	SQFlash	2.5" SATAIII MLC SSD
	Connector	7+15 pin SATA
	Capacity	64GB
	Operating Temprature	0 ~ 70° C
	Shock	1,500G, Peak / 0.5ms
	Vibration	20G, Peak / 80 ~ 2,000Hz
	Dimensions (Lx Wx H)	100x 69.85x 7.00 mm
SUSIAccess Signage	Functions	Acronis, McAfee, Content Editor, Signage Manager, Remote Management
	Media Format	Video, Flash, Picture, PDF, Marquee, Text Box, Music, Web

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