Vecow

ECS-5600 series

High-Performance, Fanless, Extended Operation Temperature Embedded System with 2nd Gen Intel[®] QM67 Quad Core[™] i7 / i5 / i3 Sandy Bridge Processsor

Distinguishing Excellence for Various Application



Order Information

Product No.	Description			
ECS-5600-3G	3 GbE Lan Fanless Embedded Controller, 2 HDD			
ECS-5600-5G	5 GbE Lan Fanless Embedded Controller, 2 HDD, iAMT 7.0			
ECS-5600-5GD	5 GbE Lan Fanless Embedded Controller, 2 HDD, Isolated DIO, iAMT 7.0			
ECS-5600-5GDE	5 GbE Lan Fanless Embedded Controller, 2 HDD, Isolated DIO, SUMIT (A, B), iAMT 7.0			
ECS-5600-3R	3 GbE Lan Fanless Embedded Controller, 2 Front Panel Access Removable HDD with Key Lock			
ECS-5600-5R	5 GbE Lan Fanless Embedded Controller, 2 Front Panel Access Removable HDD with Key Lock, iAMT 7.0			
Option	Description			
CPU Selection Sandy Bridge 2 nd Gen Intel [®] Mobile Core [™] i7-2710QE				
	Sandy Bridge 2 nd Gen Intel® Mobile Core™ i5-2510E			
	Sandy Bridge 2 nd Gen Intel® Mobile Core™ i3-2330E			
	Sandy Bridge 2 nd Gen Intel® Mobile Core™ Celeron® B810			
SO-DIMM Selection	Vecow M-Series Wide Temperature -40°C ~ +85°C , DDR3 1333/1066MHz 4GB SO-DIMM			
	Kingston®, DDR3 1333/1066MHz 8GB SO-DIMM			
	Kingston®, DDR3 1333/1066MHz 4GB SO-DIMM			
PWA-90W	90W, 24V, 90VAC to 264VAC Power Adapter			



- 2nd Gen Intel[®] Core[™] i7/i5/i3 Sandy Bridge Mobile Processor 3 / 5 GbE LAN for Extend Internet Application
- Rugged, Fanless, -25 °C to 70 °C Operation Temperature
- Support 2 DDR3 RAM, up to 16GB
- QM67 System Processor
- Rich I/O: 4 COM, 6 USB, 2 Mini-PCle, SIM Card Socket

ECS-5600 series, Extended Fanless Embedded System, with integrated 2nd Gen Intel® Core™ i7, i5, i3, and Celeron® Sandy Bridge mobile series processor equipped with maximum 5 GbE LANs, DVI-D/HDMI and VGA dual display, CFast, SUMIT A, B, dual channel maximum 16GB 1333/1066MHz DDR3 SO-DIMM slots, up to 2 bottom (optional front access with key lock) 2.5" SATA III (6Gbps) HDD/SSDs, SATA II (3Gbps), and 2 eSATA ports enable operating under -25°C to +70°C extended temperature. The new 2nd Gen Intel® Core™ processors offer embedded designers a number of important upgrades including multiple CPU cores, an integrated graphics processor, Intel® AMT 7.0 support, Intel® virtualization technology, Intel® Turbo Boost Technology, and remote management support. For vivid graphic enhancement, Intel® HD graphics engine supports H.264/AVC-MPEG2/VC1, DirectX 10.1 and OpenGL 3.0. Designed for harsh operational environments and high performance applications requiring expansion flexibility and data security, the ECS-5600 Series is suited for a broad range of embedded applications, including security and surveillance solutions, digital signage, industrial automation, machine automation, in-vehicle platforms, and intelligent transportation systems.



Vecow Co., Ltd. Tel 886 2 2268 5658 / Fax 886 2 2268 1658 www.vecow.com / info@vecow.com



Dual Display: DVI-D / HDMI and VGA • Intel[®] AMT 7.0 Supported for 5G/5R/5GD/5GDE

- 2 SATA III (6Gbps) 2.5" HDD / SSD
- Optional: Isolated DIO, SUMIT[™] A, B



Specification

Reliable & Rugged Design

System CPU Chipset BIOS SIO Memory I/O Port Serial Interface USB Interface Isolated DIO LED GPIO	2 nd Gen. Intel [®] Mobile Core [™] i7 / i5 / i3 Sandy Bridge Processor Intel [®] QM67 Phoenix UEFI BIOS Nuvoton NCT6106D DDR3 1333 / 1066MHz Max. 16GB, 2 204-pin SO-DIMM Sockets 3 COM RS-232, 1 COM RS-232/485/422 6 USB Ports, Compliant with USB 2.0 8 DI, 8 DO (ECS-5600-5GD & ECS-5600-5GDE Models) Power / Suspend, HDD, and WDT LED 8 DI / 8 DO	Unit: mm (inch)	WATCHDOG LED CAST LED POWER ON/OFF HDD LED UF OFFICE UF OFFICE	
Expansion Mini PCIe SUMIT A, B	2 Mini PCIe, 1 SIM Socket on 1 Mini PCIe Interface 2 SUMIT Slots (ECS-5600-5GDE Model)		WATCHDOG LED CFAST LED POWER ON/OFE HDD LED	
Graphics Chipset Display Memory Interface	Intel [®] GMA HD 3000 Shared Memory, Up to 1.7GB VGA + DVI-D / HDMI Onboard VGA, Supports Max. Resolution 2048 x1536 (@60Hz) Onboard DVI-D, Supports Max. Resolution 1920 x1200		POWER ON/OFF HDD LED SUSPEND DVI-D/HDMI RESET CFAST USB5 USB3 USB1 USB6 USB4 USB2 MIC LINE OUT LINE OUT	
SATA SATA Storage Expansion eSATA	2 Bottom SATA III (6Gbps) 2.5" HDD/SSD Drive Bays 2 Front Access SATA III (6Gbps) 2.5" HDD/SSD Drive Bays with Key Lock (ECS-5600-3R & ECS-5600-5R Models) SATA II (3Gbps) Slot, Supports IDE / AHCI Mode CFast Slot, External Hot-swap, Push In / Out Ejector	REAR VIEW	vga lans lanz lant ECS-5600-5GD	
ESATA	2 eSATA Ports	◄───260 (10.2″) ──►		
Audio Codec Audio Interface Ethernet LAN1~ LAN4 LAN5	Realtek ALC892, 5.1 Channel HD Audio Line-in, Line-out, Mic-in, Front Audio Header Intel [®] 82574L Gigabit LAN Intel [®] 82579LM Gigabit LAN	90 (3.5") 90 (3.5") 90 (3.5") 90 (3.5")	WATCHDOG LED CFAST LED HDD LED DVI-D/HDMI SUSPEND RESET CFAS	
Power				
Power Input Power Input Voltage Power Adapter	DC Jack, 2-pin Terminal Block DC-IN 6 ~ 36V AC to DC +24V / 3.75A. 90W Max. (Optional)	*ECS-5600-3G/5G Model BACK VIEW	VGA LAN3 LAN2 LAN1	
Other			ECS-5600-5GDE	
Watchdog Timer HW Monitor	Reset: 1 to 255 sec/min Per Step Temperature/ Voltages Auto Throttling Control When CPU Overheats	78 ◄-(3.1″) ◄		
Mechanical			WATCHDOG LED CFAST LED	
Chassis Construction Size(W x D x H) Weight Mounting Environment	Aluminum Housing 260mm x 175mm x 78mm (10.2" x 6.9" x 3.1") 2.8Kg (6 lb) Wall-mount by Mounting Bracket	175 (6.9″)	POWER ON/OFF HDD LED SUSPEND DVI-D/HDMI RESET CFAST USB5 USB3 USB1 USB6 USB4 USB2 CFAST USB6 USB4 USB2 MIC	
Operating Temperature Storage Temperature	e -25°C to 70°C (-13°F to 157°F) -40°C to 85°C (-40°F to 185°F)	SIDE VIEW		
Humidity Vibration	10% to 95% Humidity, Non-condensing Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, According to IEC600	068-2-64)	REMOVEABLE HDD/SSD TRAYS VGA LAN3 LAN2 LAN1	
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to			
EMC	CE, FCC, RoHS, EN50155 & EN50121-3-2		ECS-5600-3R / ECS-5600-5R	
*All product specifications are subject to change without prior notice.				







