

# Vecow

## Industrial PC Specification Overview - 2018



ecs

# More than 5000 products and over 1,000,000 metres of cable in our 5000<sup>m</sup><sup>2</sup> warehouse.

ECS are committed to holding the right products for you.



ECS is a leading supplier for electrical and automation products across New Zealand.

Founded in 1983 we are a New Zealand family owned business spanning two generations. We began by designing and manufacturing automated machinery for a range of industries including dairy production machinery and production machinery for the construction industry. Our relationships with our suppliers such as LAPP KABEL in Germany was initiated through our own demand for high quality products for our production.

Over the last 30 years ECS has evolved from a manufacturing company to a market leading supplier of electrical and automation products. We are now the exclusive distributors in New Zealand for world leading manufacturers such as LAPP KABEL, Wieland Electric, MOXA Networking and LS products.

At ECS we strive to offer the best customer service in the industry. When you phone us you will go straight through to our sales team who are made up of trained electricians and automation engineers. We are not just order takers; we are able to guide you through our products so you can select the right product to suit your requirements.

In 2012 we moved into a purpose built 2500m<sup>2</sup> warehouse, specifically designed to suit our requirements. Located in Hamilton where we stock 5000 different parts and over 1 million metres of cable, in our 5000m<sup>2</sup> warehouse, we are committed to holding the right products for you.

Over the course of 2015 we more than doubled the size of our warehouse giving us the ability to hold greater stock quantities and much larger cable sizes.

With our well established logistics network, we are able to deliver products to customers from Kaitaia to Invercargill in just one working day. Linking with our supplier's warehouses around

the world, if customers are working overseas we are able to drop-ship directly to site anywhere in the world while handling all the paperwork back here in New Zealand.

ECS is an expanding and adapting company; we are consistently adding new products to our line-up based on customers' requirements. We strive to offer you a complete package for all your electrical and automation requirements.



**FREE PHONE 0800 849 2211**

## QUICK REFERENCE

04



### SPC-2145

Ultra Compact Embedded System with Quad Core Intel® Atom™ E3845, 2 Gigabit LAN, 4 USB 3.0, 4 COM, Fanless, Rugged, Extended Temperature

06



### ECS-7000 Series

High Performance, Rugged, Extended Temp., Fan-less Embedded System with 9 GbE and Intel® QM77 Express Chipset & Choice of 3rd Gen. Intel® Quad Core™ i7/i5/i3 Mobile Processor

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### ECS-7000 Series Performance Fan-less Embedded System

High Performance, Rugged, Extended Temp., Fanless Embedded System with 9 GbE and Intel® QM77 Express Chipset & Choice of 3rd Gen. Intel® Quad Core™ i7/i5/i3 Mobile Processor

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### MTC-2021

21.5\" Fanless Multi-Touch Computer with Intel® Bay Trail Quad-Core E3845 Processor

# SPC-2145



Ultra Compact Embedded System with Quad Core Intel® Atom™ E3845, 2 Gigabit LAN, 4 USB 3.0, 4 COM,  
Fanless, Rugged, Extended Temperature

## FEATURES

- Ultra Compact Embedded System
- Quad Core Intel® Atom™ E3845 1.91GHz Processor
- Rugged, -25°C to 70°C Operating Temperature
- Fanless and Ultra-compact
- 6V to 36V DC Power Input
- DVI-I for VGA/ DVI/ HDMI Video Output
- Dual Independent Gigabit LAN
- 4 External USB 3.0
- 4 COM RS-232/ 422/ 485 with Auto Flow Control
- Supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS



## SPECIFICATIONS

### SYSTEM

PROCESSOR	Quad Core Intel® Atom™ E3845 1.91GHz Processor (Valleyview)
CHIPSET	Intel® SoC (Bay Trail)
BIOS	AMI
SIO	IT8786E
MEMORY	1 DDR3L 1333MHz SO-DIMM, up to 8GB

### I/O INTERFACE

SERIAL	4 COM RS-232/ 422/ 485
USB	4 USB 3.0
LED	Power, HDD, WTD
SIM CARD	1 Internal SIM Card Socket

### EXPANSION

MINI PCIE	2 Mini PCIe Socket : <ul style="list-style-type: none"><li>■ 1 Mini PCIe for PCIe/ USB/ SIM Card</li><li>■ 1 Mini PCIe for PCIe/ USB/ Optional mSATA</li></ul>
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### GRAPHICS

GRAPHICS PROCESSOR	Intel® HD
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### INTERFACE

INTERFACE	DVI-I for VGA/ DVI/ HDMI output : <ul style="list-style-type: none"><li>■ DVI : Up to 1920 x 1080</li><li>■ VGA : Up to 2560 x 1600</li></ul>
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### STORAGE

SATA	1 SATA II (3Gbps)
MSATA	1 SATA II (Mini PCIe Type, 3Gbps)

### AUDIO

AUDIO CODEC	Realtek ALC892, 5.1 Channel HD Audio
AUDIO INTERFACE	1 Line-out

### ETHERNET

LAN 1	Gigabit LAN by Intel® I210
LAN 2	Gigabit LAN by Intel® I210

### POWER

POWER INPUT	6V to 36V, DC-in
POWER INTERFACE	2-pin Terminal Block : V+, V-
REMOTE SWITCH	2-pin Terminal Block : On, Off

### OTHERS

WATCHDOG TIMER	Reset : 1 to 255 sec./min. per step
SMART MANAGEMENT	Wake on LAN, PXE supported
HW MONITOR	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

### SOFTWARE SUPPORT

OS	Windows 8, Windows 7, Linux
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### MECHANICAL

DIMENSIONS (MM)	106W x 150.4L x 65.9H (4.2" x 5.9" x 2.6")
WEIGHT	1.4 kg (3.1 lb)
MOUNTING	<ul style="list-style-type: none"><li>■ Wallmount by mounting bracket</li><li>■ DIN Rail Mount (Optional)</li></ul>

### ENVIRONMENT

OPERATING TEMPERATURE	-25°C to 70°C (-13°F to 158°F)
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### STORAGE TEMPERATURE

STORAGE TEMPERATURE	-40°C to 85°C (-40°F to 185°F)
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### HUMIDITY

HUMIDITY	5% to 95% Humidity, non-condensing
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### RELATIVE HUMIDITY

RELATIVE HUMIDITY	95% @ 70°C
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### SHOCK

SHOCK	<ul style="list-style-type: none"><li>■ IEC 60068-2-27</li><li>■ SSD : 50G @ wallmount, Half-sine, 11ms</li></ul>
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### VIBRATION

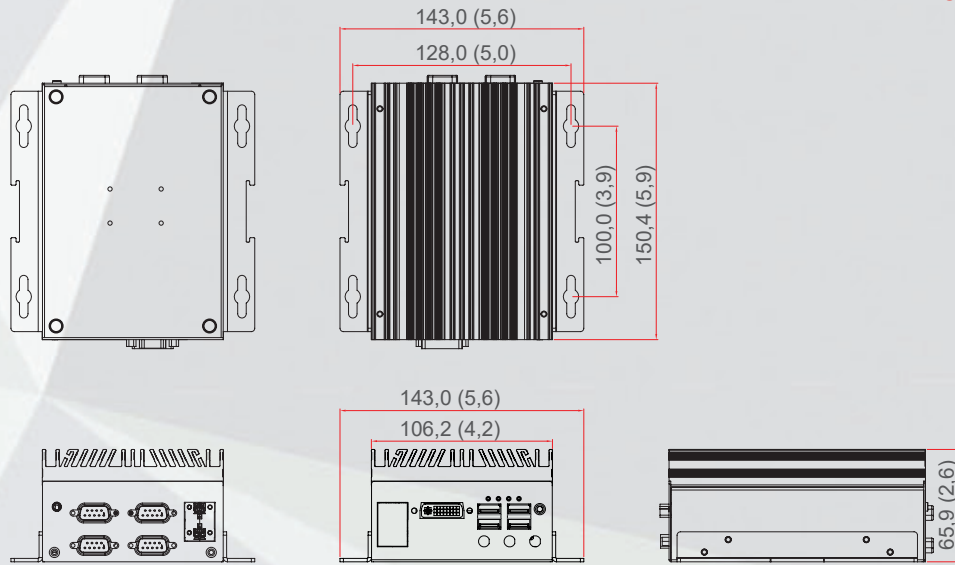
VIBRATION	<ul style="list-style-type: none"><li>■ IEC 60068-2-64</li><li>■ SSD : 5Grms, 5Hz to 500Hz, 3 Axis</li></ul>
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### EMC

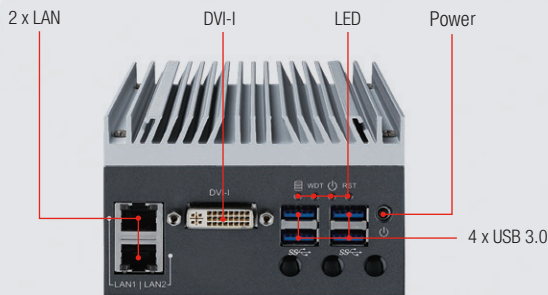
EMC	CE, FCC, EN 50155, EN 50121-3-2
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## DIMENSIONS

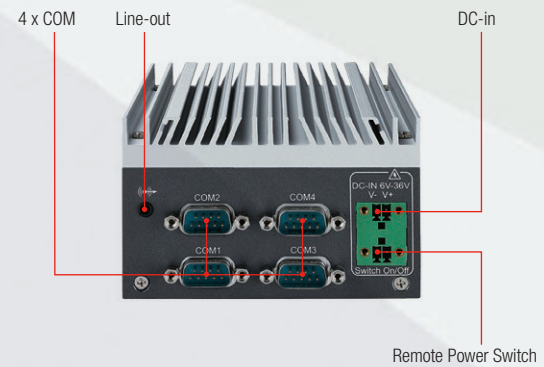
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## FRONT I/O



## REAR I/O

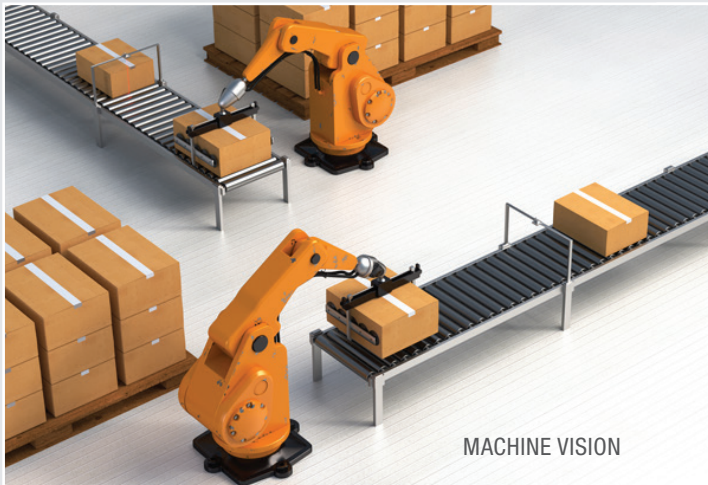


## ORDER INFORMATION

SPC-2145  
 DDR3L4G  
 DDR3L8G  
 PWA-60WP2  
 DIN-RAIL  
 3G MODULE  
 4G MODULE  
 WIFI & BLUETOOTH MODULE

SPC-2145 Ultra-compact Embedded System, 2 GbE LAN, 4 COM, 4 USB, Onboard Quad Core Intel® Atom™ E3845  
 Certified DDR3L-1600 4G RAM  
 Certified DDR3L-1600 8G RAM  
 60W, 24V/2.5A 100V AC to 240V AC Power Adapter for 2-pin 3.5mm Terminal Block  
 DIN Rail Kit  
 Mini PCIe 3G/GPS Module with Antenna  
 Mini PCIe 4G/GPS Module with Antenna  
 Intel® Mini PCIe WiFi & Bluetooth Module with Antenna

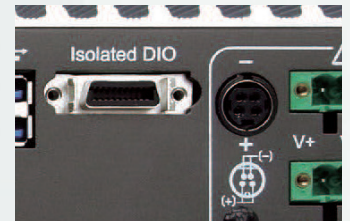
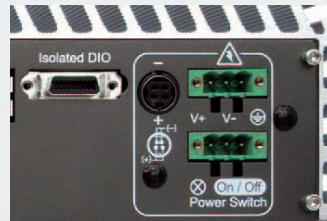
## SUGGESTED APPLICATIONS



# ECS-7000 SERIES



High Performance, Rugged, Extended Temp., Fan-less Embedded System with 9 GbE and Intel® QM77 Express Chipset & Choice of 3rd Gen. Intel® Quad Core™ i7/i5/i3 Mobile Processor



## FEATURES

- 3rd Gen Intel® Quad Core™ i7 | i5 | i3 Ivy Bridge
- Mobile Processor (6M Cache, up to 3.30 GHz)
- Fanless, -25°C to 70°C Operation Temperature
- 9 GbE LANs, Independent LAN Controllers
- QM77 System Chipset
- Support 2 SO-DIMM DDR3 or DDR3L, up to 16GB
- Isolated 8 DI | 8 DO, GPIO 8 DI | 8 DO
- 2 SATA III (6Gbps) 2.5" SSD | HDD, mSATA
- Built-In Input 80 VDC Over voltage Protection
- Rich I/O: 4 COM, 4 USB 3.0, 2 USB2.0,
- 2 Mini-PCIe (1 with SIM Card Socket)
- 5 Display Support: 2 DP, DVI-D, VGA, LVDS
- 3 Independent Displays
- Intel® AMT 8.0 Support
- Onboard Trusted Platform Module (Optional)

ECS-7000 series support 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), DDR3L and DDR3 maximum dual channel 16GB ram, 3 independent display (DP, DVI-D, and VGA), isolated DIO, maximum 9 GbE LANs, CFast, two 2.5" SATA 6Gp/s SSD | HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 mini PCI-express, plus with overvoltage protection and Trusted Platform Module which making ECS-7000 series stand out from others in machine vision and GigE imaging, intelligent automation, surveillance and security, and most of embedded applications. ECS-7000 full series powered by cutting-edge the 3rd Gen Intel® Quad-Core™ i7 Processor (6M Cache, up to 3.3 GHz) not only increasing power efficiency as much as 25% also integrates Intel® HD 4000 graphics and extremely low thermal design power as 35W providing an enhanced reliability, safety and shock resistance for fanless operation required environments. Maximum 9 GbE LANs, ECS-7000 series provide stable and speedy Ethernet with 9.6 kb/s to 1 Gb/s data transmission option for high bandwidth and supports Ethernet Control Automation Technology (EtherCAT).

## SPECIFICATION

### SYSTEM

PROCESSOR	3rd Generation Intel® Quad Core™ i7   i5   i3 Ivy Bridge Processors (6M Cache, up to 3.30 GHz)
CHIPSET	Intel® Mobile QM77
BIOS	AMI
SIO	IT8783F
MEMORY	DDR3 1066   1333   1600 MHz, DDR3L 1066   1333 MHz, h16GB Max., 2 204-pin SO-DIMM Sockets

### I/O PORT

SERIAL INTERFACE	3 COM RS-232, 1 COM RS-232   485   422
USB	4 USB 3.0, 2 USB 2.0, 2 Internal USB 2.0
ISOLATED DIO	8 DI, 8 DO (Optional)
LED	Power, HDD and CFast LEDs
GPIO	16 GPIO

### EXPANSION

MINI PCIE	1 mini PCIe Socket: PCIe + USB + SIM Card Socket, 1 mini PCIe Socket: PCIe + USB
SUMIT A, B	2 SUMIT Slots (Optional)
JST CONNECTOR	1 Internal 6-pin (Internal USB 2.0)

### GRAPHICS

CHIPSET	Intel® GMA HD 4000
DISPLAY MEMORY	Shared Memory, Up to 1.7GB
INTERFACE	DB-15 VGA   1920 x 1200 Max., DVI-D   1920 x 1200 Max., Display Port 1   2560 x 1600 Max. Display Port 2   1920 x 1200 Max., LVDS   Dual Channel 24-bit   1920 x 1200 Max.

### STORAGE

SATA	2 SATA III 6Gbps, 1 SATA II 3Gbps - Support Horizontal Type SATA DOM
MSATA	2 SATA II 3Gbps
STORAGE EXPANSION	CFast Slot Push In   Out Ejector

### AUDIO

AUDIO CODEC	Realtek ALC892, 5.1 Channel HD Audio
AUDIO INTERFACE	Line-In, Line-Out, Mic-In, Front Audio Header

### ETHERNET

LAN1	Intel® 82579LM Gigabit LAN, Wake on LAN, PXE Support
LAN2	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN3	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN4	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN5	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN6	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN7	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN8	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support
LAN9	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support

### POWER

POWER INPUT	1 Mini DIN, One 3-pin Terminal Block for DC-IN : V+, V-, Frame Ground
POWER INPUT VOLTAGE	DC-IN 6 ~ 36V
POWER ADAPTER	AC to DC +24V / 5A 120W Max. (Optional)
PROTECTION	On-Board LT4356 for Power Input High Voltage Surge Protection

### OTHER

TRUSTED PLATFORM MODULE (TPM)	Infineon SLB9635, LPC Interface (Optional)
WATCHDOG TIMER	Reset: 1 to 255 sec. / min. Per Step
HW MONITOR	Temperature   Voltages Auto Throttling Control When CPU Overheats

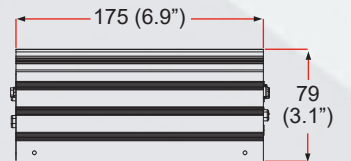
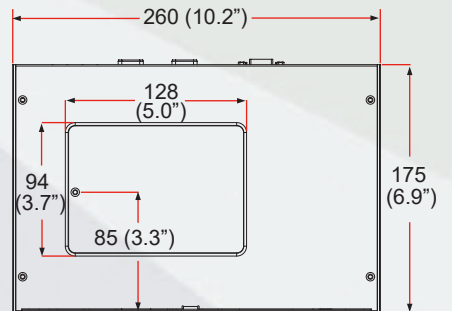
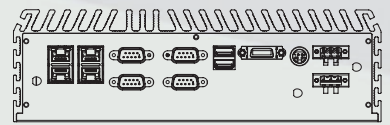
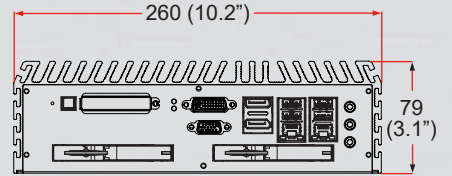
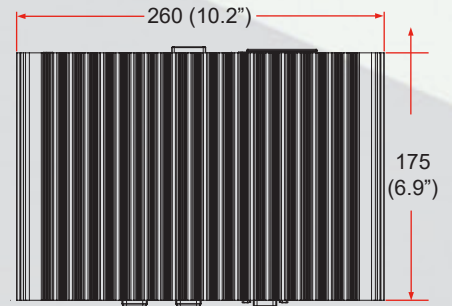
### MECHANICAL

CHASSIS CONSTRUCTION	Aluminum Housing
SIZE(W X D X H)	260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")
WEIGHT	2.8Kg (6 lb)
MOUNTING	Wall-Mount by Mounting Bracket

### ENVIRONMENT

OPERATING TEMPERATURE	-25°C to 70°C (-13°F to 157°F)
STORAGE TEMPERATURE	-40°C to 85°C (-40°F to 185°F)
HUMIDITY	5% to 95% Humidity, Non-condensing
RELATIVE HUMIDITY	95% at 70°C
VIBRATION	Random: 5Grms @5~500 Hz according to IEC68-2-64 Sinusoidal: 5Grms @5~500 Hz according to IEC68-2-64
SHOCK	Operating, 50 Grms, Half-sine 11 ms Duration (w / SSD, According to IEC60068-2-27)
EMC	CE, FCC, RoHS, EN50155 & EN50121-3-2

Unit: mm (inch)



## ORDER INFORMATION

### PART NUMBER

### DESCRIPTION

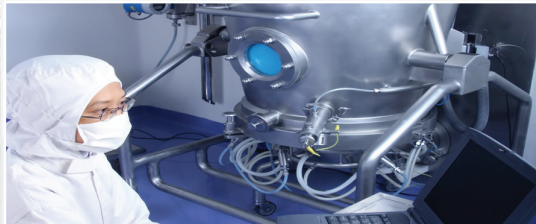
ECS-7000-9GD	9 GbE LAN Fanless Embedded Controller, 2 SSD   HDD, Isolated DIO, iAMT 8.0
ECS-7000-9R	9 GbE LAN Fanless Embedded Controller, 2 Front Panel Access Removable SSD   HDD with Key Lock, iAMT 8.0
ECS-7000-6GDE	6 GbE LAN Fanless Embedded Controller, 2 SSD   HDD, Isolated DIO, SUMIT (A, B), iAMT 8.0
ECS-7000-6GD	6 GbE LAN Fanless Embedded Controller, 2 SSD   HDD, Isolated DIO, iAMT 8.0
ECS-7000-6R	6 GbE LAN Fanless Embedded Controller, 2 Front Panel Access Removable SSD   HDD with Key Lock, iAMT 8.0
ECS-7000-6G	6 GbE LAN Fanless Embedded Controller, 2 SSD   HDD, iAMT 8.0
ECS-7000-2V	2 GbE LAN Fanless Embedded Controller, 2 SSD   HDD, and 4-CH, 120 fps, Built-in Video Capture Function
ECS-7000-2R	2 GbE LAN Fanless Embedded Controller, 2 Front Panel Access Removable SSD   HDD with Key Lock
ECS-7000-2G	2 GbE LAN Fanless Embedded Controller, 2 SSD   HDD
I7-3610QE	Ivy Bridge 3rd Gen Intel® Mobile Quad-Core™ i7 Processor
I5-3610ME	Ivy Bridge 3rd Gen Intel® Mobile Core™ i5 Processor
I3-3120ME	Ivy Bridge 3rd Gen Intel® Mobile Core™ i3 Processor
M340S-W28M1	Vecov DDR3 4GB 1333/1066MHz RAM, Micron® Chip, Wide Temperature -40°C ~ +85°C
KVR13S9S8/8	Kingston® DDR3 8GB PC1333 RAM
KVR13S9S8/4	Kingston® DDR3 4GB PC1333 RAM
PWA-120WM4P	120W, 24V, 90VAC to 264VAC power adapter
SCSI-20P-100	20-in SCSI Cable, 1M
TMB-SCSI-20P	Terminal Board with One 20-pin SCSI Connector and DIN-Rail Mounting
WIFI MODULE	Intel® Mini PCIe WiFi Module with Antenna

# ECS-7000 SERIES PERFORMANCE FAN-LESS EMBEDDED SYSTEM

High Performance, Rugged, Extended Temp., Fanless Embedded System with 9 GbE and Intel® QM77 Express Chipset & Choice of 3rd Gen. Intel® Quad Core™ i7/i5/i3 Mobile Processor



INDUSTRIAL PLANT

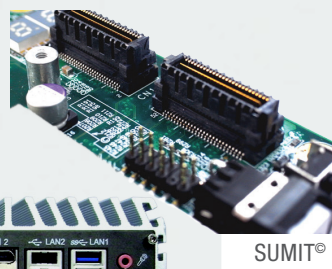


INTELLIGENT AUTOMATION

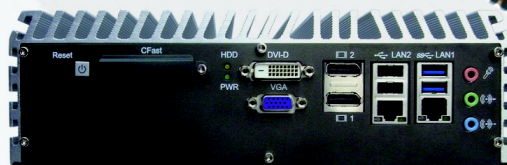
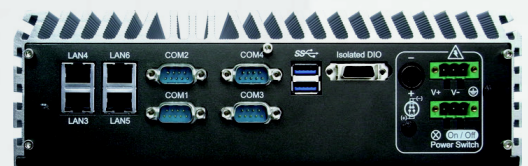


SURVEILLANCE & SECURITY (NVR)

## ISOLATED DIO



SUMIT®



### ECS-7000-6GDE



Ideal industrial system solution, ECS-7000-6GDE model equipped with 6 GbE LAN, Isolated DIO 8 DI, 8 DO, and SUMIT interface to provide greater effective data transfer rates. ECS-7000-6GDE model also enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.

### ECS-7000-6GD

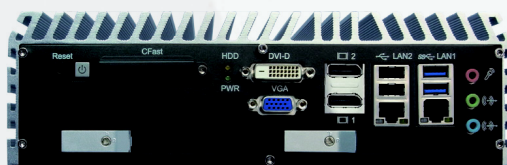
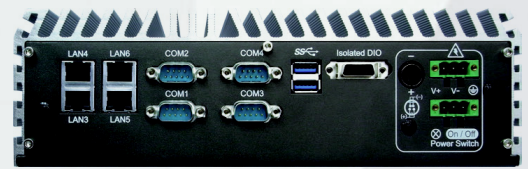


Collecting most industrial useful interfaces, ECS-7000-6GD model has designed with isolated DIO 8 DI, 8 DO and GPIO 8DI, 8DO. Like all other ECS-7000 series, ECS-7000-6GD enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.

## STANDARD



FRONT PANEL ACCESSIBLE SSD | HDD TRAYS



### ECS-7000-2R



ECS-7000-2R supports 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 GbE LAN, 2 front panel access removable SSD/HDD trays with key locks, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.

### ECS-7000-2G



ECS-7000-2G supports 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 GbE LAN, 2 SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.



## APPLICATIONS



MEDICAL & HEALTH CARE



INTELLIGENT MANUFACTURE SYSTEM

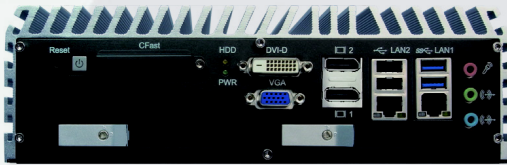


MACHINE VISION

## GRAND

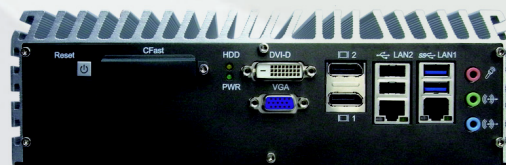
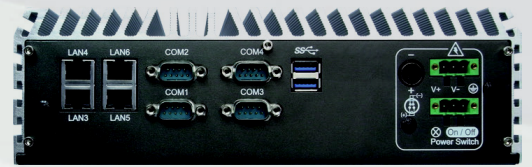


FRONT PANEL  
ACCESSIBLE  
SSD | HDD  
TRAYS



### ECS-7000-6R

Featuring with 6 GbE LAN and 2 front panel accessible SSD/HDD trays, ECS-7000-6R model also enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.



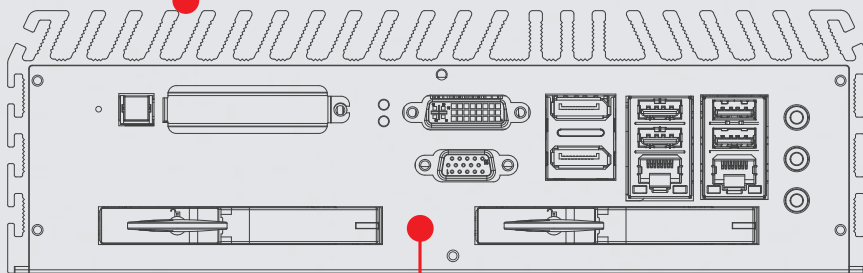
### ECS-7000-6G

For the outstanding console functions, ECS-7000-6G model has designed with 6 GbE LAN ports for various devices to communicate with microcontroller. ECS-7000-6G model not only enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.



## CUSTOMISED

Modify Chassis Colour



Customised Front Panel

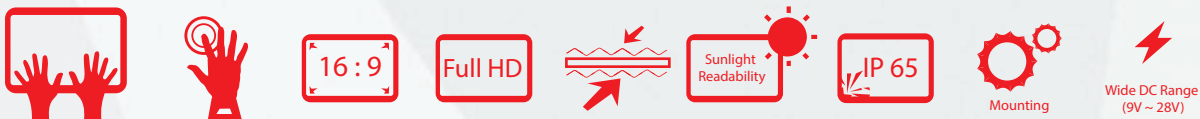
### BENEFITS

- Cost-Efficient
- Customised
- Quality
- Time-To-Market
- Integrated
- Reliability

# MTC-2021



21.5" Fanless Multi-Touch Computer with Intel® Bay Trail Quad-Core E3845 Processor

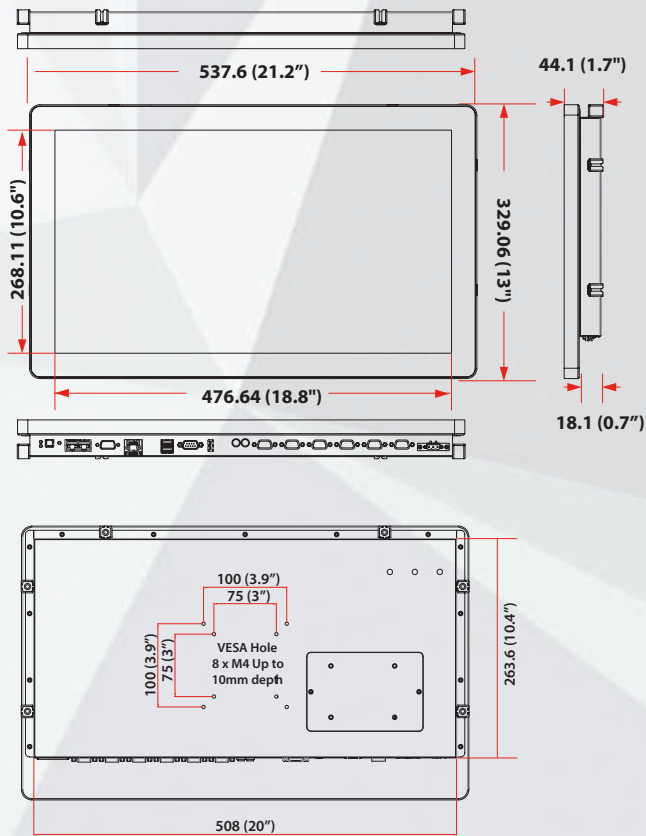


## FEATURES

- 21.5" 16:9 Full HD (1920x1080) LCD Panel with LED Backlight
- Projected Capacitive Multi-touch Screen
- Fanless Design with Intel® Atom™ Quad-Core E3845 Processor (Bay Trail )
- Touchscreen Works with Gloves
- Ultra-compact and Slim Design with IP65 Front Panel Protection
- Mounting Methods: Panel / VESA
- 2 Giga LAN, 1 USB 3.0, 2 USB 2.0, 8 GPIO, 6 COM Ports Including 2 Isolated RS-232/422/485
- Wide DC Range of 9V ~ 28V
- Support 3G/4G/GPS/GPRS/WiFi/Bluetooth (Optional)
- Sunlight Readability Requirements (Optional)

The 21.5 inch slim and ultra-compact Multi-Touch Panel PC, MTC-2021, housed in a 4.4 cm casing, weighs only 5.8 kg, is designed to full a variety of applications in industrial environments. This all-in one fanless multimedia panel PC is powered by a low-voltage high performance Intel® Atom™ Quad-Core E3845 Processor (Bay Trail) and equipped with projected capacitive multi-touch screen that works with gloves. The MTC-2021 has built-in 2 GbE LAN, 3 USB port, 6 COM port, 8 GPIO with optional 3G/4G/GPS/GPRS/WiFi/Bluetooth module. The wide operating temperature (0°C to +50°C), DC input range (9V ~ 28V), and the sunlight-readable option offer great reliability for operations in harsh environments. In addition, its IP65 grade front bezel protects the system from liquid damage. The MTC-2021 is an excellent HMI machine for applications in Intelligent Manufacturing System, Environmental Monitoring, Transportation, Internet of Things (IoT), self-service kiosk, and Retail outlets.

## DIMENSIONS



UNIT : MM/ INCH

## SUGGESTED APPLICATIONS



## SPECIFICATION

### DISPLAY PANEL

TYPE	a-Si TFT-LCD
VIEWABLE SIZE IMAGE	21.5" (16:9)
RESOLUTION	1920 x 1080 (Full HD)
DISPLAY COLOUR	16.7 M (RGB 8 bits)
BACKLIGHT	LED
BRIGHTNESS (CD/M2)	250 (Optional, Up to 1200)
VIEWING ANGLES	89/89/89/89 (L/R/U/D)
CONTRAST RATIO	3000:01:00

### TOUCH SCREEN

TYPE	10 points Projected Capacitive
TRANSPARENCY	≥ 85%
SURFACE HARDNESS	7H
CONTROL INTERFACE	USB

### SYSTEM

PROCESSOR	Intel® Atom™ Quad Core Valleyview E3845 Processor (1.91GHz, Bay Trail) Valleyview SoC
CHIPSET	1 DDR3L 1333 SODIMM, Max. 8Gb
MEMORY	VGA or HDMI output
DISPLAY	Mic-In, Line-Out
AUDIO	Windows 8, Windows 7, WES7, Linux
SOFTWARE SUPPORT	

### STORAGE

SATA HDD	1 SATA II Port at 3.0Gb/s
MSATA	1 mSATA (Mini-PCIe type)

### I/O PORTS

SERIAL PORTS	6 COM Ports ( 2 RS-232, 4 RS-232/422/485) 2 Isolated RS-232/422/485 with 5K VDC
LAN	2 Intel® GbE WG82574L
USB	1 USB 3.0, 2 USB 2.0
GPIO	8 GPIO
MINI PCIE SLOT	Mini-PCIe Socket (PCIe+USB +SIM Card Socket) Mini-PCIe Socket (PCIe+USB) mSATA Socket 3 Pre-Cast Holes for Antenna

### OTHER

GPS	On-board GPS Module (Optional)
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### POWER

INPUT	Terminal Block; DC-IN 9~28V
POWER ADAPTER	AC to DC 60W power adaptor (Optional)

### MECHANICAL

DIMENSIONS (WXHXD)	537.6 x 329.06 x 44.1 mm (21.2" x 13" x 1.7")
GROSS WEIGHT	5.8 KG (12.8 lb)
IP PROOF	Front IP65 Water and Dust Proof
MOUNTING	VESA mount (75 x 75mm & 100 x 100mm) Panel mount

### ENVIRONMENT

OPERATING TEMPERATURE	0°C to 50°C (32°F to 122°F)
STORAGE TEMPERATURE	-20°C to 60°C (-4°F to 140°F)
HUMIDITY	10% to 90%, Non-condensing
VIBRATION	IEC 60068-2-64 Non-operation: 10-200 Hz, 1.5 Grms, X, Y, Z, 30 mins each Axis
SHOCK	IEC 60068-2-27 20G, half sine, 11ms
EMC	CE, FCC A, RoHS

## ORDER INFORMATION

### PART NUMBER

MTC-2021

### OPTION

DDR3L8G  
DDR3L4G  
PWA-60WP3B  
PANEL-MOUNT  
VESA-MOUNT

### DESCRIPTION

21.5" Fanless Multi-Touch Computer with Intel® Bay Trail Quad-Core E3845 Processor

Certified DDR3L-1600 8G RAM  
Certified DDR3L-1600 4G RAM  
60W, 24V/2.5A 100V AC to 240V AC Power Adapter for 3 Pin 5.0mm Terminal Block  
Panel mount Kit  
VESA Table Stand

INTELLIGENT  
MANUFACTURING  
SYSTEM

TRANSPORTATION

SELF-SERVICE  
KIOSK

ENVIRONMENTAL  
MONITORING

RETAIL



**eCS** Vecow

**LOCATION**

Cnr Te Rapa & Ruffell  
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