



## ECM-CFS

8th Gen Intel® Core™ i7/i5/i3/Celeron® 3.5" Micro Module with Intel® Q370/H310 chipset

- > Intel® Coffee Lake Low power LGA 6+2, 4+2 (35W) Processor
- > Intel® Q370/H310 Express Chipset
- > One 260-pin SODIMM Socket Up to 16GB DDR4 2400/2666MHz
- > Triple Display, 2-HDMI, 18/24-bit 2-CH LVDS
- > Rich I/Os, 2-SATA III, 1-Mini PCIe, 4-USB 3.1, 2-USB 2.0, 2-COM, 2-LAN, 8-bit GPIO
- > Realtek AL892 Audio Codec
- > Dual Intel® Gigabit LAN Chipset
- > TPM 2.0 (from Firmware TPM)

**Spec**

System	
<b>Processor</b>	Intel® Core™ i7-8700T Processor (12M Cache, up to 4.00 GHz) Intel® Core™ i5-8500T Processor (9M Cache, up to 3.50 GHz) Intel® Core™ i3-8100T Processor (6M Cache, 3.10 GHz) Intel® Pentium® Gold G5400T Processor (4M Cache, 3.10 GHz) Intel® Celeron® G4900T Processor (2M Cache, 2.90 GHz)
<b>System Chipset</b>	Intel® Q370/H310 Express Chipset
<b>System Memory</b>	1 x 260-pin SODIMM Socket Up to 16GB DDR4 2400/2666MHz
<b>BIOS</b>	AMI UEFI BIOS, 256 Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec.
<b>H/W Status Monitor</b>	Monitoring CPU & System Temperature and Voltage
<b>TPM</b>	TPM 2.0(from Firmware TPM)
Expansion	
<b>Expansion</b>	1 x Mini PCIe (mSATA) (Q370 support PCIe/SATA/USB 2.0) (H310 support SATA/USB2.0)
Storage	
<b>Storage</b>	1 x mSATA
I/O	
<b>USB</b>	2 x USB 2.0 4 x USB 3.1(w/Q370 Gen2, w/H310 Gen1)
<b>SATA</b>	2 x SATA III
<b>COM Port</b>	2 x RS-232
<b>MIO</b>	1 x LPC 1 x SPI
<b>GPIO</b>	1 x 8bit GPIO
Display	
<b>Chipset</b>	Processor Graphics Intel® UHD Graphics 630 (i7-8700T, i5-8500T, i3-8100T) Intel® UHD Graphics 610 (Pentium G5400T, Celeron G4900T)
<b>Resolution</b>	Dual HDMI: Max. resolution 4096x2304 @ 30Hz LVDS: Max. resolution 1920x1080 @ 60Hz
<b>Multiple Display</b>	Triple Display(2 x HDMI, 1 LVDS)
Audio	
<b>Chipset</b>	Realtek ALC892
<b>Audio Interface</b>	Mic-In, Line-In, Line-Out
Ethernet	
<b>Chipset</b>	1 x Intel® I211AT 1 x Intel® I219LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	+12V
<b>ACPI</b>	Single Power ATX Support S0, S1, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)



<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	5.7" x 4" (146mm x 101mm)
<b>Weight</b>	0.44lbs (0.2kg)
<b>Certifications</b>	
<b>Certification Information</b>	CE, FCC Class B
<b>Software Support</b>	
<b>OS Information</b>	Win 10, Linux
<b>System Control</b>	
<b>LED Indicator</b>	1 x Power on/off LED on Rear side 1 x Storage Access LED on Rear side

**+ Ordering**

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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660