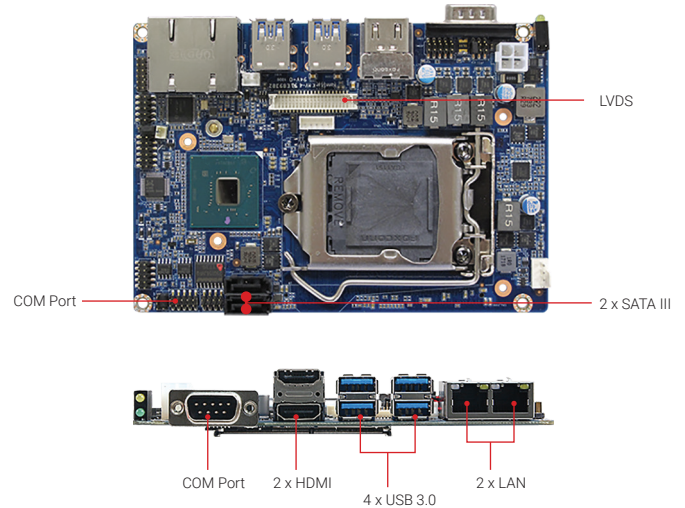


Features

- Top Layer Soldered Socket
- Supports 9th/8th Gen Intel® Coffee Lake-S Core™/ Pentium®/Celeron® Processors
- Intel® Q370/H310 Express Chipset
- Intel® UHD Graphics 630/610
- Single DRAM Socket, Max. Up to 32GB DDR4 2666MHz
- Triple Display (2 x HDMI, LVDS)
- 2 x USB 2.0, 4 x USB 3.1 (Q370 w/Gen2, H310 w/Gen1)
- mini-PCIe (mSATA), 2 x SATA III
- Dual Gigabit Ethernet
- HD Audio Code
- RAID 0/1
- Optional TPM 2.0



Specifications

System

CPU	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) Intel® Core™ i7-9700TE Processor (12M Cache, up to 3.80 GHz) Intel® Core™ i5-9500TE Processor (9M Cache, up to 3.60 GHz) Intel® Core™ i3-9100TE Processor (6M Cache, up to 3.20 GHz) Please note: CPU coolers is included. Please see manual for included accessories.
System Chipset	Intel® Q370 Express Chipset Intel® H310 Express Chipset
System Memory	1x260-Pin SODIMM Socket, up to 32GB DDR4 2400/2666MHz
Audio	Realtek ALC892, supports 5.1-CH
Ethernet	LAN 1: Intel® I211AT Gigabit Ethernet Controller LAN 2: Intel® I219LM Gigabit Ethernet Controller
Expansion	1 x mini-PCIe (mSATA) Q370: with PCIe/SATA/USB 2.0; H310: with SATA/USB2.0
Storage	1 x mSATA and 2 x SATA III
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
OS Support	Win 10, Linux

Display

Chipset	Intel® UHD Graphics 630 (i7-8700T, i7-9700TE, i5-8500T, i5-9500TE, i3-8100T, i3-9100TE) Intel® UHD Graphics 610 (Pentium G5400T, Celeron G4900T)
Resolution	Dual HDMI 1.4: Max. Resolution 4096x2304@30Hz LVDS: Max. Resolution 1920x1080@60Hz
Multiple Display	Q370 supports Triple Display H310 supports Dual Display: LVDS + HDMI1 (default LVDS enable) or HDMI1 + HDMI2 (LVDS disabled)

Internal I/O

LVDS	1 x LVDS
COM	1 x RS232
SATA	2 x SATA III
MIO	1 x LPC, 1 x SPI, 4-pin CPU Fan, CMOS Battery

External I/O

HDMI	2 x HDMI
LAN	2 x RJ45
USB	4 x USB 3.0
COM	1 x COM Port
LED Indicator	1 x Power on/off LED on Rear side 1 x Storage Access LED on Rear side

Mechanical and Environment

Power	+12V
ACPI	Single Power ATX Support S0, S3, S4, S5. ACPI 5.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F) (Standard)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Op. Humidity	40°C @ 95% Relative Humidity, Non-condensing
Form Factor	3.5" Single Board Computer (SBC)
Dimensions	5.7" x 4" (146mm x 101mm)
Weight	0.44 lbs (0.2kg)
Vibration Test	w/SSD: 5Grms, IEC 60068-2-64, Random, 5~500Hz, 30min/axis
Shock Test	With SSD: 10Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	ISTA 2A, IEC-60068-2-32 Test: Ed
Certification Info	CE, FCC Class B

Ordering Info

ECM-CFS-Q370	3.5" Intel® Q370 PCH/LGA 1151 CPU Socket
ECM-CFS-H310	3.5" Intel® H310 PCH/LGA 1151 CPU Socket

* All product specifications and images are subject to change without notice. Last update: 2021/07/29

