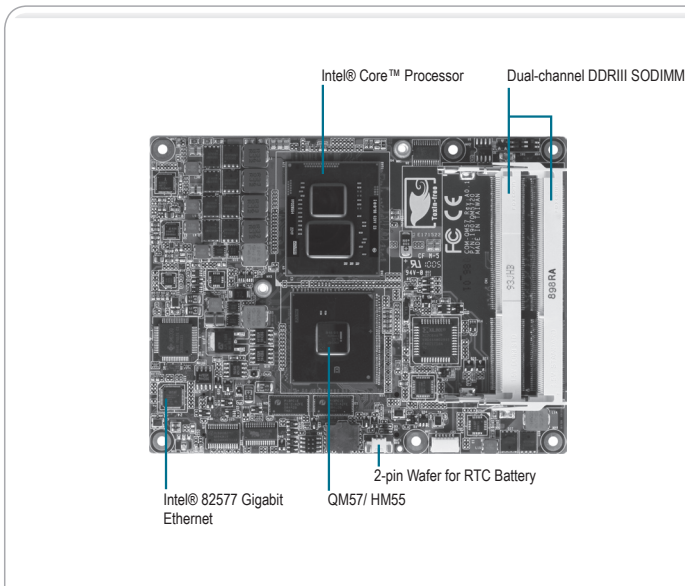


COM Express CPU Module with Onboard Intel® Core™ i7/ i5/ i3/ Celeron® (Arrandale+ECC) Processor



Specifications

System	
Form Factor	COM Express basic module, Pin-out Type II
Processor	Onboard Intel® Core™ i7/ i5/ i3/ Celeron® (Arrandale+ECC) processors
System Memory	204-pin DDRIII SODIMM x 2, Max. 8GB (DDRIII 800/1066), supports dual-channel function
Chipset	Intel® QM57 or HM55
I/O Chipset	Intel® QM57 or HM55
Ethernet	Intel® 82577, 10/100/1000 Base-TX
TPM	v1.2
BIOS	AMI BIOS SPI type, 2MB ROM
EEPROM	Atmel AT24C02, save BIOS and configuration data (Optional)
Wake on LAN	Yes
Watchdog Timer	Fintek F75111
H/W Status Monitoring	Supports CPU temperature monitoring
Expansion Interface	PCI-Express [x16] x 1 (Shared with 2 Display Ports/ 2 HDMI/ 2 DVIs) ==> Can be configured as PCI Express [x8] x 2 PCI-Express [x1] x 6 via QM57 PCI-Express [x1] x 5 via HM55 32-bit PCI x 4 LPC bus x 1 SMBus x 1 I2C x 1
Power Consumption (Typical)	—
Board Size	4.92"(L) x 3.74"(W) (125mm x 95mm)
Gross Weight	0.66 lb (0.3 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Display	
Chipset	Intel® Core i7/ i5/ i3/ Celeron (Arrandale+ECC) processor integrated Integrates hardware MPEG2 decoder
Memory	Shared system memory above 512MB/ DVM T 5.0
Resolution	Up to 2048 x 1536 (QXGA) for CRT Up to 1600 x 1200 (UXGA) for LCD
LCD Interface	Up to 24-bit dual-channel LVDS
SDVO/ DVO/ Side Port	—
HDMI	Supports HDMI x 2 (Shared with PCI-Express [x16])
DVI	Supports DVI x 2 (Shared with PCI-Express [x16])
DisplayPort	Supports Display Port x 2 (Shared with PCI-Express [x16])
TV-out	—

Features

- Onboard Intel® Core™ i7/ i5/ i3/ Celeron® (Arrandale+ECC) Processor
- Intel® QM57 or HM55 PCH
- Dual-channel SODIMM DDRIII 800/1066 Memory, Max. 8GB
- Gigabit Ethernet
- CRT, Up to 24-bit Dual-channel LVDS LCD, Display Port, HDMI, DVI
- High Definition Audio Interface
- PATA x 1, SATA II x 4 (3)
- USB2.0 x 8
- PCI x 4, PCI-Express [x16] x 1, PCI-Express [x1] x 6 (5)
- Wide DC Input Range, +8.5V to +19V (Optional)
- COM Express Basic Module Pin-out Type II



I/O	
Storage	PATA x 1 (One device) SATA II x 4 via QM57 SATA II x 3 via HM55
USB	USB 2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out

Packing list

- M2.5 Screw x 5
- Utility CD
- COM-QM57 or COM-HM55

Ordering Information

- **TF-COM-QM57-A10**
COM Express CPU Module, Intel® Core™ i7-610E 2.53GHz, QM57, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0
- **TF-COM-HM55-A10**
COM Express CPU Module, Intel® Core™ i7-620LE 2.0GHz, HM55, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0
- **TF-COM-HM55-A10-01**
COM Express CPU Module, Intel® Core™ i7-620UE 1.06GHz, HM55, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0
- **TF-COM-HM55-A10-02**
COM Express CPU Module, P4505 1.86GHz, HM55, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0

Optional Accessories

- **TF-ECB-916M-A21**
COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 7.1CH Audio, 2COM (Winbond), USB, PCI-Express, AT/ATX, Rev.A2.1