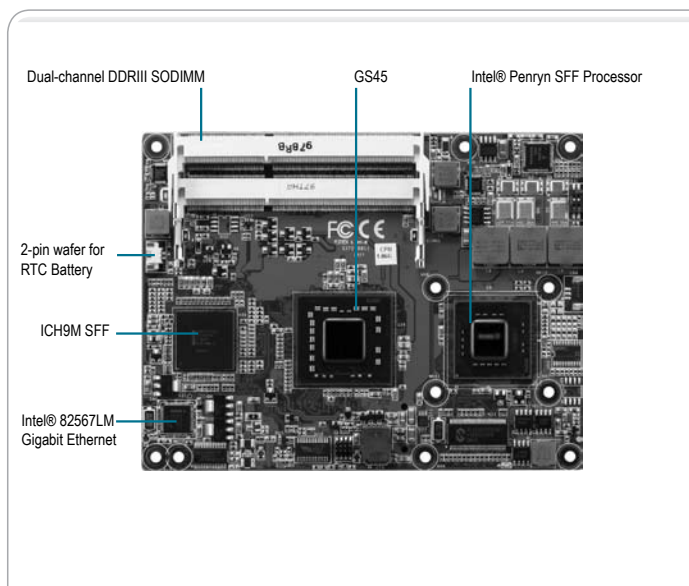


## COM Express CPU Module With Onboard Intel® Core™ 2 Duo/ Celeron® M (SFF, 22 x 22mm) Processors



## Specifications

System	
Form Factor	COM Express basic module, Pin-out Type II
Processor	Onboard Intel® Core™ 2 Duo/ Celeron® M (SFF, 22x22 mm) processors
System Memory	204-pin DDRIII SODIMM x 2, Max. 8 GB (DDRIII 800/1066), supports dual-channel function
Chipset	Intel® GS45 + ICH9M SFF
I/O Chipset	ICH9M SFF
Ethernet	Intel® 82567LM, 10/100/1000Base-TX
TPM	v1.2
BIOS	AWARD BIOS v8.0 SPI type, 2 MB ROM With legacy-free BIOS (Default)
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 SDVOs/ 3 DisplayPorts/ 2 HDMI/ 2 DVIs) => Can be configured as PCI Express [x1]/ [x2]/ [x4]/ [x8] PCI-Express [x1] x 5 32-bit PCI x 4 LPC bus x 1 SMBus x 1 I2C x 1
Power Requirement	Wide DC input range, +8.5V to +19V (Optional) Nominal: +12V 2-pin wafer for RTC battery
Power Consumption (Typical)	Intel® SP9300 2.26 GHz, DDRIII 1066 4 GB 3A @ +12V, 0.81A @ +5V (w/ECB-916M)
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)	85,000
Display	
	Supports CRT/LCD, CRT/TV, CRT/DVI, LCD/TV, LCD/DVI simultaneous/ dual view displays
Chipset	Intel® GS45 integrated Integrates hardware MPEG2 decoder Supports WMV9 (VC-1) and H.264 (AVC)
Memory	Shared system memory above 512 MB/ DVMT 5.0
Resolution	Up to 2048 x 1536 (QXGA) for CRT Up to 2048 x 1536 (QXGA) for LCD
LCD Interface	Up to 24-bit dual-channel LVDS
SDVO/ DVO/ Side Port	Supports SDVO x 2 (Shared with PCI-Express [x16])
HDMI	Supports HDMI x 2 (Shared with PCI-Express [x16], needs to add a level shifter)
DVI	Supports DVI x 2 (Shared with PCI-Express [x16], needs to add a level shifter)
DisplayPort	Supports DisplayPort x 3 (Shared with PCI-Express [x16])

## Features

- Onboard Intel® Core™ 2 Duo/ Celeron® M (SFF, 22 x 22mm) Processors
- Intel® GS45 + ICH9M SFF
- Dual-Channel SODIMM DDRIII 800/1066 Memory, Max. 8 GB
- Gigabit Ethernet
- CRT, Up To 24-bit Dual-Channel LVDS LCD, TV, DisplayPort, HDMI, DVI
- High Definition Audio Interface
- PATA x 1, SATA II x 3
- USB2.0 x 8
- PCI x 4, PCI-Express [x16] x 1, PCI-Express [x1] x 5
- Wide DC Input Range, +8.5V To +19V (Optional)
- COM Express Basic Module Pin-out Type II



TV-out	Intel® GS45 integrated, supports NTSC/ PAL/ HDTV HDTV supports: 480p/720p/1080i/1080p Supports Composite Video, S-Video, Component Video (YPbPr) on carrier board
I/O	
Storage	PATA x 1 (One device) SATA II x 3
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-45GS

## Ordering Information

- **TF-COM-45GS-A10**  
COM Express CPU Module, SL9400, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0
- **TF-COM-45GS-A10-01**  
COM Express CPU Module, SU9300, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0
- **TF-COM-45GS-A10-02**  
COM Express CPU Module, Celeron M 723, Dual DDRIII, Gigabit Ethernet, USB 2.0, Rev.A1.0

## Optional Accessories

- **TF-ECB-916M-A10-01**  
COM Express Carrier Board, microATX, 2 Gigabit Ethernet, 7.1CH Audio, 4 COM, USB, PCI-Express, AT/ATX, Rev.A1.0
- **TF-PER-A073**  
CPU Cooler, For COM-45GS, Onboard CPU, 12V Fan
- **TF-PER-A074**  
Passive Heatsink, For COM-45GS, Onboard CPU
- **TF-PER-A075**  
Heat Spreader Kit, For COM-45GS, Onboard CPU
- **14S6245GS0**  
16 Mb SP1 BIOS Chip with Standard (Legacy) BIOS for COM-45GS + ECB-916M A1.0