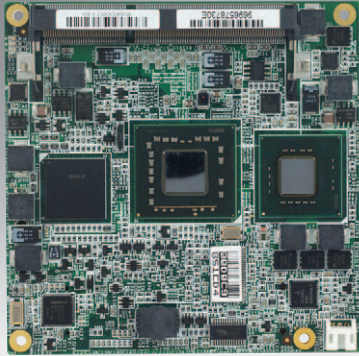


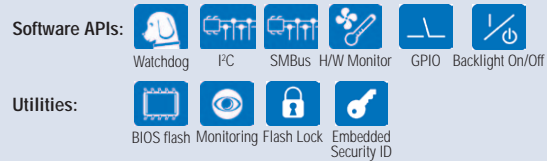
SOM-6787

Intel® Core™2 Duo Processor GS45 COM-Express Compact Module



Features

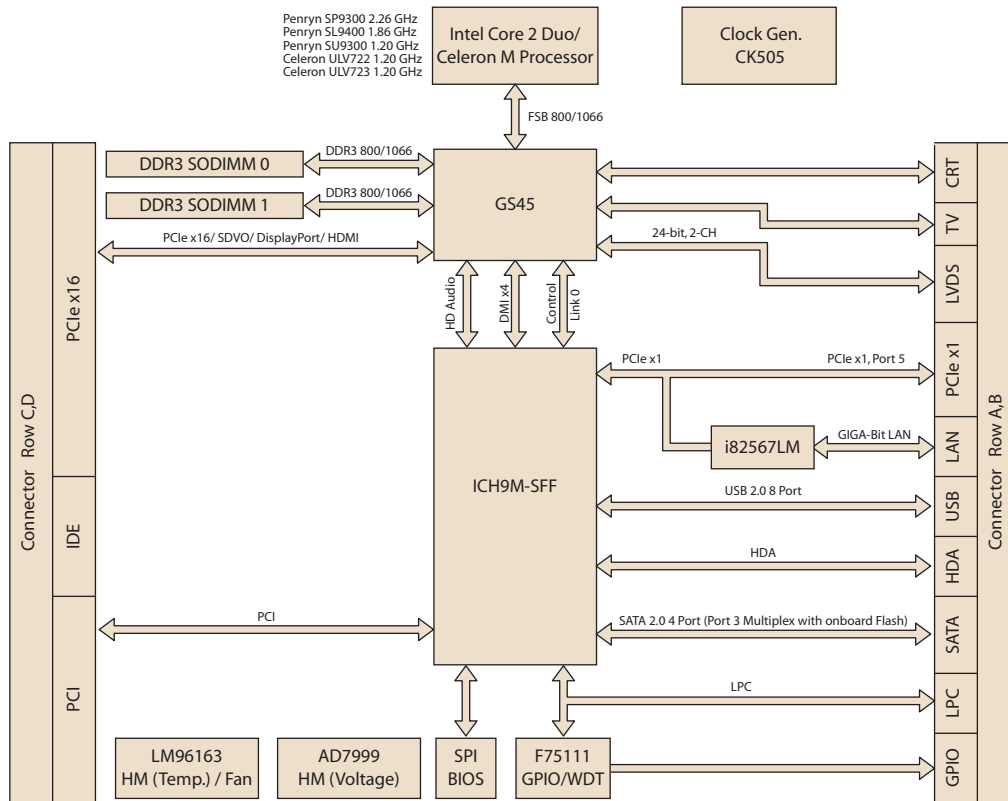
- Embedded Intel® Core™2 Duo/Celeron® M processor
- Intel GMA X4500 Gen 5 DX10, HW support for H.264, VC-1 and MPEG2
- Supports 2 DDR3 SODIMM up to 8 GB
- Supports PCIe x16, 5 PCIe x1, 4 PCI, LPC, 4 SATAII, 8 USB 2.0
- Supports embedded software APIs and Utilities



Specifications

Form Factor		COM-Express Compact Module, Type II Pin-out
Processor System	CPU	Intel Core 2 Duo SP9300, LV Core 2 Duo SL9400, ULV Core 2 Duo SU9300 Intel ULV Celeron M 722, ULV Celeron M 723
	Front Side Bus	800/1066 MHz
	System Chipset	Intel GS45/ICH9M SFF
	BIOS	AMI 32 Mbit Flash BIOS
Memory	Technology	DDR3 800/1066 MHz
	Max. Capacity	up to 8 GB
	Socket	2 x 204-pin SODIMM sockets
Display	Chipset	Intel GS45
	VRAM	DVMT 5.0 supports up to 1024 MB
	Graphics Engine	Mobile Intel GMA X4500 3D/2D engine, HDMI, Displayport, SDVO shared with PCIe x16 (PEG)
	LCD	Single and dual channel 24/48-bit LVDS
	VGA	up to QXGA (2048 x 1536)
	TV-out	Yes
	SDVO	2 SDVO Ports
	Dual Display	Dual Display of VGA, LVDS, TV-out, HDMI, Displayport, SDVO (Note: SDVO function is supported by customized BIOS)
Ethernet	Chipset	Intel 82567 Gigabit Ethernet
	Speed	10/100/1000 Mbps
WatchDog Timer		256 timer intervals, from 0 to 255 sec or min setup by software, jumperless selection, generates system reset
Expansion		LPC, PCIe x16, 5 PCIe x1, 4 PCI master
I/O	SATA	4 x SATAII
	USB	8 x USB 2.0 ports
	Audio	High definition audio interface
	GPIO	8-bit GPIO
Power	Power Type	ATX, AT
	Power Supply Voltage	+12 V and +5 VSB for ATX, +12V for AT
	Power Consumption (Typical)	(1 GB DDR3 1066) SP9300: +12V @ 0.66A
	Power Consumption (Max. test in HTC)	(1 GB DDR3 1066) SP9300: +12V @ 2.1A
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions	95 x 95 mm (3.74" x 3.74")

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	Chipset	LVDS	VGA	SDVO	Giga LAN	HD Audio	PCIe x16	PCIe x1	PCI	USB 2.0	SATA	LPC	ATX Power	AT Power	Thermal Solution	Operating Temp.
SOM-6787FG-S1A1E	Intel ULV Celeron M 723 1.2 GHz	1 MB	Intel GS45	48-bit	Yes	2	1	Yes	1	5	4	8	4 x SATAII	1	Yes	Yes	Active	0 ~ 60° C
SOM-6787FG-S2A1E	Intel ULV Celeron M 722 1.2 GHz	1 MB	Intel GS45	48-bit	Yes	2	1	Yes	1	5	4	8	4 x SATAII	1	Yes	Yes	Passive	0 ~ 60° C
SOM-6787FG-S3A1E	Intel ULV Core 2 Duo SU9300, 1.2 GHz	3 MB	Intel GS45	48-bit	Yes	2	1	Yes	1	5	4	8	4 x SATAII	1	Yes	Yes	Active	0 ~ 60° C
SOM-6787FG-S9A1E	Intel LV Core 2 Duo SL9400, 1.86 GHz	6 MB	Intel GS45	48-bit	Yes	2	1	Yes	1	5	4	8	4 x SATAII	1	Yes	Yes	Active	0 ~ 60° C
SOM-6787FG-U3A1E	Intel Core 2 Duo SP9300, 2.26 GHz	6 MB	Intel GS45	48-bit	Yes	2	1	Yes	1	5	4	8	4 x SATAII	1	Yes	Yes	Active	0 ~ 60° C

Development Board

Part No.	Description
SOM-DB5700G-00A2E	Development Board for COM-Express with GLAN

Optional Accessories

Part No.	Description
1960048815N001	Semi-Heatsink 95 x 95 x 17 mm
1960048819N001	Semi- Cooler 95 x 95 x 33.5 mm with 12 V Fan

Packing List

Part No.	Description	Quantity
-	SOM-6787 CPU Module	1
-	Utility CD	1
1960046889N001	Heatspreader	1

