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Embedded Computer

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Embedded Computer

Embedded Board

These compact size form factors include Half-size CPU cards, 5.25" Petit boards, EPIC boards, 3.5" Capa boards, Mini ITX, STZ, ETX & Com Express , PC/104 modules and customized sizes as well. The computing architecture for these boards us categorized as IBM™ PC-based compliant from 386 up to Intel® Core™ 2 Duo/ Intel® Pentium® M. They are widely applied onto various embedded applications such as, UI intensive like traditional industrial automation, human machine interface, transaction terminals, DVR and transportation equipments as well as data processing like networking appliances.

Reliability

To enhance system reliability for critical demands, Anewtech's embedded SBCs are designed with precise Watchdog timer, a fanless low power consumption system, USB DOM (Diskon Module) , PC/104 and PC/104+ expansion interface, SSD with onboard Flash, NVRAM, DiskonChip® and CompactFlash™ etc.

Communication

For better communication interactive demands, the SBCs have auto flow control RS-232/422/485, wake-on-LAN Ethernet with RPL/PXE Boot ROM.

Multimedia

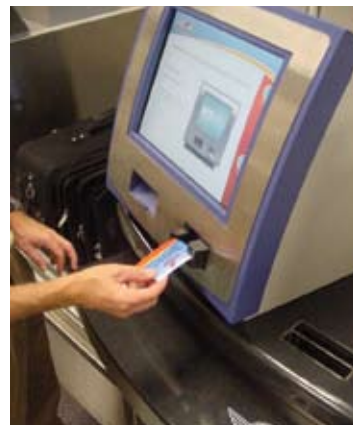
The SBCs are equipped with user-friendly SmartView BIOS, DualView (also advanced Dual LVDS) and high quality audio playback.

Security

The SBCs have an unique ID and Mini PCI interface for hardware encryption/ authentication acceleration.

Critical Approach

These SBCs have an extended temperature for extreme working environments.



Embedded Computer

5.25" Embedded Board

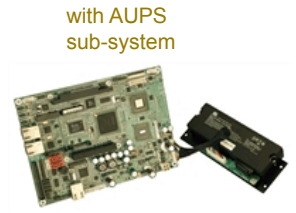


Model Name	Anewtech PCM-9590F	Anewtech PCM-9580	Anewtech PCM-9582	Anewtech PCM-9566	Anewtech EBC 540	Anewtech EBC 500
CPU socket	Socket 479	Socket 478	Onboard	Onboard	On-board	Socket M
CPU type	Intel® Core™ 2 Duo, Core Duo	Intel® Pentium®/ Celeron 4	Intel® Pentium® M/ Intel Celeron M	VIA C7/Eden	Intel®Atom™ N270	Intel® Core 2 Duo, Core Duo, Core Solo
FSB (MHz)	533/667	400/533	400/533	400/533	533	533/667
Chipset	Intel 945GME + ICH7M	Intel 845GVGMCH +82801 1CH4	Intel 855GME GMCH/ 6300ESB	VT8237R+	Intel® 82945GS Intel® GBM ICH7-M	Intel® 945GM Intel® ICH7-M DH
Memory	Up to 4 GB DDR2 SODIMM	2GB DDR (DIMM x 2)	1 GB DDR DRAM (DIMM x 2)	2 GB DDR DRAM (DIMM x 2)	2 GB non-ECC 400/533 DDR2 memory	4 GB DDR2 (2x DIMM)
Display Interface	Intel 945GME	VGA in Intel® 845GV + Chronitel CH7017	VGA in Intel® 855GME	VGA in VIA CN700 GMCH	Intel® 945GSE integrated Intel® GMA950	LVDS CCFL VGA in Intel® 945GME
Ethernet	Intel 82573L	1 x 10/100 Intel 82551ER 1 x Intel® 82540EM GbE	1x10/100 82551FB 1 x 10/100/1000 82541GI(Optional)	1 x 10/100 Realtek 8100C	Realtek RTL8111C-GR	2 x Intel® 82573L GbE
I/O Interface	6 x USB 2.0 1 x LPT 3 x RS-232 1 x RS-232/422/485	4 x USB 1.1/2.0 1 x LPT 3 x RS-232 1 x RS-232/422/485	4 x USB 2.0 1 x LPT 3 x RS-232 1 x RS-232/422/485	8 x USB 2.0 1 x LPT 5 x RS-232 1 x RS-232/422/485	6 x RS 232 6 x USB 2.0 1 x LPT	4 x RS 232 6 x USB 2.0 1 x LPT 1 x IrDA 1 x PS12
Drive Interface	2 x SATA 2 x IDE	2 x IDE/ 1 x FDD	2 x SATA 1xFDD 1 x 10F	2 x SATA 2 x IDE	2 x SATA	2x SATA 1 x IDE
Audio	Yes	Yes	Yes	Yes	Yes	Yes
SSD	CF Type I/ II	CF Type I/ II	CF Type I/ II	CF Type I/ II	CF Type I/ II uDOC	CF Type I/ II
Operation Environment	0 ~ 60° C	0 ~ 60° C	0 ~ 60° C	0 ~ 60° C	0 ~ 60° C	0 ~ 60° C
Expansion Slot	1 x PCIe x16 1 x Mini PCI 1 x PCI-104	1 x PCI	1 x PC/104 1 x Mini-PCI	1 x PCI 1 x Mini- PCI	1 x Mini-PCIe slot 1 x PCI slot	1 x PClex 16slot 1 x PCI slot

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Embedded Computer

5.25" Embedded Board



with AUPS
sub-system

Model name	Anewtech EBC 583	Anewtech EBC 580	Anewtech EBC 572	Anewtech EBC 575	Anewtech eNova-945GSE
CPU socket	On Board	On Board	Socket 478	Socket 478	On-Board
CPU type	VIA Eden™/C7 400MHz - 1.5 GHz	VIA Eden™ V4	Intel® Pentium M/ Celeron M	Intel® Pentium® 4/Pen- tium® 4-M/Celeron®	Intel® Atom™ Processor N270
FSB (MHz)	400	400	400	400/533	533
Chipset	VIA® CN700 VIA® 8237R+	VIA® CN700	Intel® 855GME GMCH Intel® ICH4	Intel® 845GV GMCH Intel® ICH4	Intel® 945GSE + Intel® ICH7M
Memory	1 GB DDR (1x DIMM)	1 GB DDR2 (1x DIMM)	2 GB DDR2 (2x DIMM)	2 GB DDR2 (2x DIMM)	1 X 20-pin 400/533 DDR2 SDRAM SO-DIMM Up to 2GB
Display Interface	VGA in VIA® CN700	VGA in VIA® CN700	LVDS VGA in Intel® 855GM GMCH	VGA in Intel® 845GV GMCH	Intel® Graphics Media Accelerator 950 (Intel® GMA 950)
Ethernet	3 x (10/100) Realtek RTL8139C+	2 x Realtek RTL8110SC GbE	2 x (10/100) Intel® 82551QM & 85262EM	2 x (10/100) Intel® 82551QM 1 x 1CH4LAN	Dual Realtek PCIe 8111CP GbE Controller
I/O Interface	2 x RS 232 6 x USB 2.0 2 x LPT 1 x IrDA 1 x PS/2	4 x RS 232 1 x RS 232/422/ 485 4 x USB 2.0 1 x LPT 1 x IrDA	3 x RS 232 1 x RS 232/422/ 485 4 x USB 2.0 1 x LPT 1 x PS/2	2 x RS 232 2 x USB 2.0 1 x LPT 1 x PS/2	3 x RS-232 1 x RS-232/422/485 6 x USB2.0 1 x LPT
Drive Interface	2 x SATA 1 x IDE	2 x SATA 1 x IDE	1 x IDE 1 x FDD	1 x IDE 1 x FDD	2 x SATA with 5V DC output 1 x IDE
Audio	Yes	Yes	Yes	Yes	Yes
SSD	1 x CF	1 x CF	1 x CF	1 x CF	1 x CF
Operation Environment	0 ~ 60°C	-20 ~ 60°C	-20 ~ 60°C	0 ~ 60°C	0 ~ 60°C
Expansion Slot	1 x PCI slot	1 x PCI slot	1 x PCI slot 1 x PCI/104 slot	1 x PCI slot	1 x PC/104+ (ISA+PCI bus) 2 x PCIe mini card

Embedded Computer

5.25" Embedded Board



Model Name	Anewtech Nova-945GSE	Anewtech NOVA-9452	Anewtech NOVA-9152/9102	Anewtech NOVA-8522G2	Anewtech NOVA-LX
CPU Socket	On Board	Socket M	On board / Socket 479	On board / Socket 479	On board
CPU Type	Intel® Atom™ Processor N270	Intel® Core™2 Duo, Core™ Duo/Solo, Celeron®M	Intel® Pentium® M/ Celeron® M	Intel® Celeron® M 600 MHz Intel® Pentium® M Celeron® M	AMD® Geode™ LX800
FSB	533	667/533	400	400	400
Chipset	Intel® 945GSE+ICH7M	Intel® 945GM + ICH7M	Intel® 915GME/ 910GML E + ICH6-M	Intel® 852GM + ICH4	AMD® Geode™ GX466 + AMD® CS5536
Memory	1 X 200-pin 400/533 DDR2 SDRAM SO-DIMM Up to 2GB	Max. 2 GB DDR2 50DIMM	Max. 2GB DDR SODIMM	Max. 2 GB, DDR DIMMs	256MB DDR on board, optional 512 MB
Display Interface	Intel® Generation 3.5 integrated GFX Core (133 MHz)	VGA Integrated in Intel® 945GM or SDVO by Chronitel CH7317A	VGA Integrated in Intel®915GME /910GML E LVDS	VGA integrated in Intel® 852GM LVDS	VGA Integrated in AMD® LX800
Ethernet	Dual Realtek PCIe 8111CP GbE Controller	Dual BCM5787M PCIe GbE	Dual RTL8111CP PCIe GbE	Dual RTL8110SC GbE chipsets	Dual 10/100Mbps RTL8100C
I/O Interface	3 x RS-232 1 x RS-232/422/485 6 x USB2.0 1 x LPT 1 xTPM	4 x RS-232 2 x RS-232/422/485 6 x USB 2.0 1 x LPT 1 x Infrared	4 x RS-232 2 x RS-232/422/485 6 x USB 2.0 port 1 x LPT 1 x Infrared	3 x RS-232 1 x RS-232/422/485 6 x USB 2.0 port 1 x LPT 1 x infrared	6 x RS232 2 x RS232/422/485 4 x USB 2.0 1 x LPT 1 x PS/2
Drive Interface	2 x SATA with 5V output 1 x IDE	2 x SATA 1 x IDE	2 x SATA 1 x IDE	2 x SATA RAID 2 x IDE 1 x FDD	1 x IDE 1 x FDD
Audio	Yes	Yes	Yes	Yes	Yes
SSD	1 x CF	CF Type I/II	CF Type I/II	CF Type I/II	CF Type I/II
Operating Environment	0 ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	-20°C ~ 80°C
Expension Slot	1 x PC/104+ (ISA+PCI bus) 2 x PCIe mini card 1 x PCI	1 x PCI 1 x PCIe Mini Card slot 1 x PC/104+	1 x PCI 1 x PCIe Mini Card slot 1 x PC/104+	1 x PCI 1 x Mini-PCI	1 x PC/104+ 1 x Mini PCI

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Embedded Computer

3.5" Embedded Board



Model name	Anewtech EBC 340	Anewtech EBC 301	Anewtech EBC 320	Anewtech EBC 300	Anewtech PAM-9361	Anewtech PCM-9388F
CPU socket	On-board	Socket 479	Onboard	Socket 479	On-Board	On-board
CPU type	Intel® Atom™ N270	Intel® Pentium/ Celeron M	AMD Geode™ LX800 on board	Intel® Celeron/ Pentium M	Intel® Atom™ Pro- cessor N270	Intel® Celeron® M
FSB (MHz)	533	400/533	500	400	533	400
Chipset	Intel® GMCH Intel® ICH7-M	Intel® 915GM Intel® ICH6M	AMD Geode LX800 / AMD CS 5536	Intel® 852GM Intel® ICH4	Intel® 945GSE Intel® ICH7M	Intel® 852GM Intel® ICH4
Memory	2 GB single channel DDR2	512 MB DDR2 on board (Optional 1GB)	1 GB DDR (1x SO- DIMM)	256 MB DDR on board	2GB DDR2	DDR 200/600 Up to 1GB
Display Interface	Intel® GMA950	LVDS VGA in Intel® 915GME CCFL	TFT VGA in AMD Geode™ LX800	VGA in Intel® 852GM LVDS	Intel 945GSE	Intel® 852GM
Ethernet	Realtek RTL8111 C-GR	Realtek RTL8111 C-GR	Realtek 8139C	Realtek RTL8101SB	Realtek 8110SC	Realtek RTL 8100CL
I/O Interface	4 x RS 232 6 x USB 2.0 1 x LPT	2 x RS 232 4 x USB 2.0	1 x RS 232 1 x RS 232/422/ 485 4 x USB 2.0 1 x LPT 1 x IrDA 1 x PS/2	1 x RS 232 6 x USB 2.0	1 x RS-232/422/485 4 x USB 2.0	1 x RS 232/422/ 485 2 x USB 2.0 1 x LPT
Drive Interface	1 x SATA	1 x SATA	1 x IDE	1 x IDE	2 x SATA	1 x SATA 1 x FDD
Audio	Yes	Yes	Yes	Yes	Yes	Yes
SSD	1 x CF uDOC: By option	1 x CF	1 x CF Type I/II	1 x CF Type I/II	1 x CF Type I/II	1 x CF Type I/II
Operation Environment	0 ~ 60°C	-20 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C
Expansion Slot	1 x PCI104	1 x PCIe 2 x PCI Master +SOM ECX Multi I/O expansion module	1 x PCI/104	1 x PCI/104	1 x PCI/104	1 x PC/104

Embedded Computer

3.5" Embedded Board



Model Name	Anewtech WAFER-945GSE	Anewtech WAFER-8522	Anewtech WAFER-U15WP2-Z530P	Anewtech WAFER-945GSE3	Anewtech WAFER-LX2	Anewtech WAFER-LX3
CPU Socket	On board	On board	On board	On board	On board	On board
CPU Type	Intel® Atom™ N270	Intel® ULV Celeron® M 600MHz/1GHz	Intel® Atom™ Processor Z530P 1.6GHz	Intel® Atom™ Processor N270 1.6GHz	AMD® Geode™ LX800	AMD® Geode™ LX800
FSB(MHz)	533	400	533	533	400	400
Chipset	Intel 945GSE Intel82801GBM + ICH7M	Intel® 852GM + ICH4	Intel® US15WP	Intel® 945GSE + Intel® 82801GBM/ ICH7M	AMD® Geode™ LX800 + AMD® CS5536	AMD® Geode™ LX800 + AMD® CS5536
Memory	Up to 2GB DDR2 533 MHz	Max.1 GB, DDR SO-DIMM	1 x 200-pin, max 2GB, 400/533MHz DDR2 SDRAM SO-DIMM	1 x 200-pin, max 2GB 533MHz DDR2 SDRAM SO-DIMM	1 x 200-pin, Max.1 GB, 400 MHz DDR SO-DIMM	DDR 256 MB on board
Display Interface	VGA intergrated in Intel® 945GSE	VGA Integrated in Intel® 852GM LVDS	Intel® Graphics Media Accelerator 500	Intel® Graphics Media Accelerator 950	VGA integrated in the AMD® Geode™ LX800 LVDS	Integrated in AMD® Geode™ LX800 LVDS
Ethernet	Realtek 8111CP Intel 82574L	Dual Realtek RTL8110SC GbE	PCIe Intel® 82574L GbE Chipset	PCIe Realtek 8111CP GbE chipset	10/100Mbps Realtek RTL8100C	Dual 10/100 Mbps Intel 82551ER
I/O Interface	5 x RS-232 1x RS-232/422/485 6 x USB 2.0 1 x PS/2 KB/MS	5 x RS-232 1 x RS-232/422/485 4 x USB 2.0 1 x PS/2	6 x USB 2.0 3 x RS-232 1 x RS-232/422/485 1 x PS/2 for KB/MS	4 x USB 2.0 3 x RS-232 1 x RS-232/422/485 1 x PS/2 for KB/MS	7 x RS-232 1 x RS-232/422/485 4 x USB 2.0	2 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT 1 x PS/2
Drive Interface	2 x SATAII	1 x IDE	1 x SATA (IDE to SATA)	2 x SATA	1 x IDE	1 x IDE
Audio	Yes	Yes	Yes	Yes	Yes	Yes
SSD	CF Type II	CF Type II	CF Type I	CF Type II	CF Type II	CF Type I/II
Operating Environment	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Expension Slot	1x Mini PCIe	1 x PCI-104	1 x PCIe mini card	1 x PC/104	1 x PC/104	1 x PC/104

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- 11 Industrial RFID
- 12 Industrial Ethernet Switch
- 13 Medical PC
- 14 Power Supply
- 15 Accessories

Embedded Computer

3.5" Embedded Board



Model Name	Anewtech WAFER-GX	Anewtech SBC84830	Anewtech SBC84822	Anewtech SBC84710	Anewtech SBC84700
CPU Socket	On board	Socket M	Socket 478	On Board	On Board
CPU Type	AMD® Geode™ GX466	Intel® Core™2 Duo / Core Duo/ Core Solo/ Celeron	Intel® Pentium® M/CM	VIA V4 Eden/C5	VIA V4 Eden/C7
FSB (MHz)	333	533/667	400/533	400/533	400/533
Chipset	AMD® Geode™ GX466 + AMD® CS5536	Intel® 945GM+ ICH7M	Intel® 915ME/ 910GMLE+ ICH6M	VIA CX700+ ITE8888G	VIA CN700 VT8237R PLUS
Memory	Max. 1 GB, DDR SO-DIMM	1GB DDR2 SODIMM	1GB DDR2 SODIMM	1GB DDR2 SODIMM	1GB DDR2 SODIMM
Display Interface	VGA integrated in the AMD® Geode™ GX466 LVDS	On board VGA in CRT/LVDS LCD DVILCD	On board VGA in CRT/LVDS LCD	On board VGA in CRT/LVDS LCD	On board VGA in CRT/LVDS LCD
Ethernet	Dual 10/100Mbps Realtek 8100C	1 x GbE	1 x GbE	1 x 10/100	2 x 10/100 Option 1 x GbE
I/O Interface	2 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT 1 x PS/2	2 x RS-232 2 x PS/2	2 x PS/2 2 x RS-232 1 x LPT	1 x PS/2 3 x RS-232 1 x RS-422/485 1 x LPT	1 x IDE 1 x FDD
Drive Interface	2 x SATA RAID 1 x IDE	2 x SATA	1 x IDE 1 x SATA	1 x IDE 1 x SATA	1 x ATA 1 x SATA
Audio	Yes	Yes	Yes	Yes	Yes
SSD	CF Type II	1 x CF	1 x CF	1 x CF	1 x CF
Operating Environment	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Expansion Slot	1 x PC/104	1 x ECX	1 x Mini PCI	1 x Mini PCI / 1 x PC/104	1 x Mini PCI

EPIC Embedded Board



Model Name	Anewtech epic Nano-945GSE	Anewtech epic Nano-9453-R11	Anewtech epic NANO-9452	Anewtech epic NANO-4386A2	Anewtech epic NANO-LX-R11
CPU Socket	On Board	Socket M	Socket M	On board / Socket 479	On board
CPU Type	Intel® Atom™ Processor N270	Intel® Core™2Duo, Core™Duo/ Solo, Celeron® M	Intel® Core™2 Duo, Core™Duo/ Solo, Celeron® M	Intel® Pentium® M/ Celeron® M	AMD® Geode™ LX800
FSB (MHz)	533	533/667	533/667	400	400
Chipset	Intel® 945GSE Intel® 82801GBM/ ICH7M	Intel® 945GME + ICH7M	Intel® 945GME + ICH7M	Intel® 852GM + ICH4	AMD® Geode™ LX800 + AMD® CS5536
Memory	Max. 2 GB, DDR2 SO-DIMM	Max. 2 GB, DDR2 SO-DIMM	Max.2 GB, DDR2 SO-DIMM	Max.1 GB, DDR SO- DIMM	Max.1 GB DDR SO-DIMM
Display Interface	VGA intergrated in Intel® 945GSE	VGA integrated in the Intel® 945GME LVDS HDTV	VGA integrated in the Intel® 945GME LVDS HDTV	VGA intrgrated in the Intel® 852GM LVDS	VGA integrated in the AMD® Geode™ LX800 LVDS
Ethernet	Dual PCIe Realtek 8111CP GbE	Dual PCIe GbE Broad-com BCM5787M	Dual PCIe GbE Broad-com BCM5787M	Dual (10/100 Mbps) Intel® 82551ER / Dual Intel® 82541PI GbE	Dual Realtek (10/100Mbps) RTL8100C
I/O Interface	3 x RS232 1 x RS-232/422/485 6 x USB 2.0 1 x PS/2 for KB/MS 1 x LPT	3 x RS232 1 x RS232/422/485 6 x USB 2.0 1 x LPT 1 x Infrared Interface 2 x PS/2	3 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x LPT 1 x Infrared Interface 2 x PS/2	5 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x Infrared Interface 1 x PS/2	6 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT 1 x Infrared Interface 1 x PS/2
Drive Interface	2 x SATA 1 x IDE	2x SATA 1x IDE	2 x SATA 1 x IDE	1 x IDE	2 x SATA RAID 1 x IDE
Audio	Yes	Yes	Yes	Yes	Yes
SSD	1 x CF Type II	1 x CF Type II	1 x CF Type II	1 x CF type II	CF Type II
Operating Environment	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Expension Slot	1 x PCI-104 1 x PCIe mini card	1 x PCI-104 1 x PCIe Mini Card Slot	1 x PCI-104 1 x PCIe Mini Card Slot	1 x PCI-104	1 x PC/104-Plus

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EPIC Embedded Board



Model Name	Anewtech epic NANO-GX/GXTC	Anewtech Enano- 8523	Anewtech epic NANO-8522G	Anewtech PCM-4390	Anewtech PCM-4386	Anewtech PCM-4380
CPU Socket	On board	On board	On-board / Socket 479	Onboard	Onboard	Onboard
CPU Type	AMD® Geode™ GX466	On board Celeron® M	Intel® Pentium® M/ Celeron® M	Embedded Intel Core Duo Processor 1.66 GHz	Embedded Intel Celeron M	Embedded Intel Pentium M/ Celeron M
FSB (MHz)	266	400	400	667	400	400
Chipset	AMD® Geode™ GX466 + AMD® CS5536	Intel® 852GM + ICH4	Intel® 852GM + ICH4	Intel® 945GM GMCH/ICH7M	Intel® 852GM GMCH/1CH4	Intel® 855GME GMCH/1CH4
Memory	Max.1 GB, DDR SO-DIMM	Max.1 GB, DDR SO-DIMM	Max.1 GB, DDR SO-DIMM	1 GB DDR2 SDRAM SODIMM	1GB DDR SDRAM SODIMM	1GB DDR SDRAM SODIMM
Display Interface	VGA Integrated in the AMD® Geode™ GX466 LVDS	VGA integrated in the Intel® 852GM LVDS	VGA integrated in the Intel® 852GM LVDS	CRT + LVDS, LVDS + LVDS display support	CRT + LVDS display support	CRT + LVDS display support
Ethernet	Realtek (10/100Mbps) RTL8100C	(10/100Mbps) Intel® 82562ET	Intel® 82541PI GbE	2 x BroadCom BCM5721 GbE	2 x (10/100) Intel 82551	2 x (10/100) Intel 82551
I/O Interface	5 x RS-232 1 x RS-232/422/485 (NANO-GX only) 4 x USB 2.0 1 x LPT 1 x Infrared Interface 1 x PS/2	4 x RS-232 4 x USB 2.0 1 x LPT 1 x PS/2	3 x RS-232 1 x RS-232-/422/485 6 x USB 2.0 1 x Infrared Interface 1 x PS/2	8 x USB 2.0 1 x LPT 3 x RS-232 1 x RS-232-/422/485	6 x USB 2.0 1 x LPT 3 x RS-232 1 x RS-232-/422/485	4 x USB 2.0 1 x LPT 3 x RS-232 1 x RS-232-/422/485
Drive Interface	2 x SATA RAID (NANO-GX only) 1 x IDE	1 x IDE	2 x SATA RAID 1 x IDE	1 x IDE 2 x SATA	1 x IDE 1 x FDD	1 x FDD 1 x IDE
Audio	Yes	Yes	Yes	Yes	Yes	Yes
SSD	CF Type II	CF Type II	CF Type II	USB-DOM	CF Type II	CF Type II
Operating Environment	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0 ~ 60° C	0 ~ 60° C	0 ~ 60° C
Expansion Slot	NANO-GX: PC/104-Plus NANO-GXTC: PCI-104	1 x PCI	1 x PCI-104	PC/104	PC/104/ PC/104-Plus	PC/104/ PC/104-Plus

Computer-on-Module

ETX Module



Model name	Anewtech IEM-945GSE	Anewtech IEM-9452	Anewtech IEM-8522	Anewtech IEM-LX	Anewtech ICES101
Desc	ETX 3.0 CPU Module	ETX 3.0 CPU Module	ETX 2.8 CPU Module	ETX 2.8 CPU Module	ETX 2.8 CPU Module
CPU socket	OnBoard	OnBoard	Socket 479	OnBoard	Pentium M
CPU type	Intel® Atom™ Processor N270 1.6 GHz	Intel® Core™2 Duo / Celeron® 1.50 GHz	Intel® Pentium® M, Celeron® M 1.06 GHz	AMD® Geode™ LX800 500MHz	Intel® Celeron® M/ Pentium® M
FSB (MHz)	533	533 / 667	400/ 533	400	400
Chipset	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7-M	Intel® 852GM + ICH4	AMD® LX800 + AMD® CS5536	Intel® 852GM + ICH4
Memory	Max. 2GB DDR2 SDRAM SO-DIMM	Max. 2GB DDR2 SDRAM SO-DIMM	Max. 1 GB DDR SDRAM SO-DIMM	Max. 1 GB DDR SDRAM SO-DIMM	Max. 1 GB DDR SO-DIMM
Display Interface	VGA/TV-Out Integrated in Intel® 945GSE signal (to base board)	VGA output Integrated in Intel® 945GME LVDS	VGA integrated in Intel® 852GM LVDS	VGA integrated in AMD LX 800 LVDS	VGA integrated Intel® 852GM
Ethernet	0/100Mbps Realtek RTL8102E Ethernet Chipset	10/100Mbps Intel 82562ET	10/100Mbps Intel® 82562ET	10/100Mbps RTL8100C	10/100Mbps Intel® 82562ET
I/O Interface	4 x USB 2.0 1 x LPT 2 x RS-232 1 x PS2 KB/MS	2 x RS-232 4 x USB 2.0 1 x LPT 1 x Infrared Interface	2 x RS-232 1 x LPT/FDD 4 x USB 2.0 1 x Infrared Interface	4 x USB 2.0 1 x LPT 2 x RS-232 1 x PS/2	4 x USB 2.0 1 x LPT
Drive Interface	2 x SATA 1 x IDE	1 x IDE 1 x SATA 1 x FDD	2 x IDE	1 x IDE 1 x FDD	2 x IDE 2 x ISA
Audio	Yes	Yes	Yes	Yes	Yes
SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type
Operation Environment	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Expansion Slot	4 x PCI	4 x PCI 1 x ISA	4 x PCI 1 x ISA	4 x PCI 1 x ISA	-

- 1 Industrial Computer
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- 10 Data Acquisition & Control
- 11 Industrial RFID
- 12 Industrial Ethernet Switch
- 13 Medical PC
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Embedded Computer

Computer-on-Module

COM Express



Model name	Anewtech SOM-5761	Anewtech ICE-945GSE	Anewtech ICES 210	Anewtech ICES 270	Anewtech ICES 300
Desc	COM Express Basic Type 2 Module	COM Express Basic Type 2 Module	COM Express basic form factor, Type 2	Low Power COM Express CPU Module	COM Express ETX CPU COM Module
CPU socket	On Board	On Board	On Board	On Board	Socket P
CPU type	Embedded Intel ATOM N270 1.6 GHz processor	Intel® Atom™ Processor N270 1.6GHz	Intel® Atom™ Z510/ Z530 Processor	Intel® Atom™ N270 1.6GHz	Intel® Core™2 Duo
FSB (MHz)	533	533	400/533	400/533	800
Chipset	Intel 945GSE + ICH7M	Intel® 945GSE + ICH7M	US15W SCH	Intel® 945GSE + ICH7M	Intel® GME965 + ICH8M
Memory	Max 2GB DDR2 400/533 MHz DDR2 SO-DIMM	Max 2GB 533/400MHz DDR2 SO-DIMM	Max 2GB DDR2 400/533 SO-DIMM	Max 2GB DDR2 400/533 SO-DIMM	Max. 4 GB DDR2 DIMM
Display Interface	Intel GMA950, Microsoft DirectX 9.1	VGA/HDTV Integrated in Intel® 945GSE Signal	GMA 500 (Integrated in US15W SCH)	Intel® 945GSE integrated graphics solution with dynamic video memory allocation	1 LVDS VGA integrated in Intel® GME965
Ethernet	Intel 82574L Gigabit Ethernet	Intel 82541PI GbE Chipset	Realtek RTL8111C-GR PCI Express 10/100/1000 Ethernet controller	Realtek RTL8111C 10/100/1000 Gigabit LAN controller	10/100Mbps Intel 82573L
I/O Interface	8 x USB 2.0	8 x USB 2.0	6 x USB 2.0	8 x USB 2.0	8 x USB 2.0
Drive Interface	2 x SATA, 1 x EIDE (UDMA 100)	2 x SATA 1 x IDE	2 x SATA II (3.0 Gbps) 1 x IDE (33/66/100)	2x SATA	3 x SATA
Audio	Yes	Yes	Yes	Yes	Yes
SSD	-	-	-	-	-
Operation Environment	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Expansion Slot	LPC, SMBUS, 3 PCIe x 1 or 1 PCIe x 4 4 PCI master	1 x SDVO 4 x PCIe x1 4 x PCI	2 x PCIe x1 1 x PCI 1 x LVDS 1 x SDVO	Type 2 COM Express Module support up to 5 Express lanes, 32 bit PCI interface and one IDE and Gigabit LAN	1 x PCIe x16 5 x PCIe x1

PC/ 104 CPU Module



Model Name	Anewtech PM-US15W	Anewtech PM-945GSE
CPU	Intel® Atom™ Z510 1.1GHz with a 400MHz FSB w/o HT support Intel® Atom™ Z530 1.6GHz with a 533MHz FSB w/ HT support	Intel® Atom™ Processor N270 1.6GHz with a 533Mhz FSB
System Chipset	Intel® US15W	Intel® 945GSE/ICH7-M
BIOS	AMI BIOS	AMI BIOS
System Memory	1 x 200-pin single channel DDR2 SO-DIMM 400/533MHz up to 2GB	On board 1GB DDR2 SDRAM supported.
Ethernet	10/100Mbps Realtek RTL8102E Ethernet chipset (PCIe Interface)	One PCIe 10/100Mbps Realtek 8102E chipset
I/O Interface	4 x RS-232 1 x RS-422/485 (Shared with COM2) 4 x USB 2.0 1 x IDE 1 x KB/MS 1 x CF type II Socket	4 x USB 2.0 4 x RS-232 1 x PS/2 for KBMS 1 x SATA 1 x RS-422/485 (Share with COM2) 1 x CF Type II
Super I/O	SMSC 3114NU	Fintek F81865
Digital I/O	8-bit digital I/O, 4-bit input/ 4-bit output	8-bit digital I/O (4-bit input, 4-bit output)
Audio	7.1 channel HD audio kit with Realtek ALC883 codec supports dual audio streams	5.1 channel audio kit with Realtek ALC655 AC'97 codec 7.1 channel HD audio kit with Realtek ALC883 codec supports dual audio streams
Display Interfaces	18/24-bit single channel LVDS VGA support by LVDS to VGA Module (LVDS-VGA-R10)	Intel® Graphics Media Accelerator 950 VGA integrated in Intel® 945GSE 18 bit dual-channel LVDS integrated in Intel® 945GSE
Expansion	PC-104 Slot (PCI BUS)	PCI-104
Watchdog Timer	Software programmable supports 1 ~255 sec. System reset	Software programmable 1-255 sec. by super I/O
Power Supply	5V only, AT/ATX support	5V only, 12V for LCD/FAN, AT/ATX support
Power Consumption	5V@1.46A (Intel® Atom™ Z530 1.6GHz with 1GB DDR2)	5V@2.6A (Intel® Atom™ N270 1.6GHz, 1GB DDR2)
Temperature	Operating: 0°C ~ 60°C	Operation: 0°C~ 60°C (32°F~ 140°F)
Humidity	Operation: 5% ~95% non-condensing	Operation: 5% ~95 non-condensing
Dimensions	96 mm x 90 mm	108.59mm x 116mm (4.275" x 4.55")
Weight	GW: 650g / NW: 250g	GW: 650g / NW: 250g

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Embedded Computer

PC/ 104 CPU Module



Model name	Anewtech PM-LX	Anewtech PM-GX	Anewtech PCM-3370	Anewtech PCM-3353	Anewtech PCM-3386
CPU socket	OnBoard	OnBoard	OnBoard	OnBoard	OnBoard
CPU type	AMD® Geode™ LX800 500 MHz	AMD® Geode™ LX800 333MHz	ULV Intel® 400/650 MHz Celeron®/ LV Pentium® III	AMD Geode™ LX800 500MHz	Embedded Intel Celeron M 600/1GHz
FSB (MHz)	400	266	400	400	400
Chipset	AMD® LX800 + AMD® CS5536	Intel® 945GME GMCH Intel GMA950	VIA® VT8606/TwisterT and VT82C686B	AMD Geode LX800	Intel 852GM ICH4
Memory	Max. 1GB, 400/333MHz DDR SDRAM SO-DIMM	Max. 512MB, 400/333MHz DDR SDRAM SO-DIMM	Max. 512MB, DDR SDRAM SO-DIMM 1 x SODIMM	Max. 1GB, 200/266/333 MHz DDR DRAM SO-DIMM	Max. 1GB, 200/266/333 MHz DDR DRAM SO-DIMM
Display Interface	VGA integrated in LX800	VGA integrated in AMD® GX466	VGA integrated in VIA VT8606	VGA integrated in AMD Geode LX800	VGA integrated in Intel 852 GM
Ethernet	(10/100 Mbps) Realtek RTL8100C	(10/100 Mbps) Realtek RTL8100C	(10/100 Mbps) Realtek RTL8139D	(10/100 Mbps) Intel 82551ER	(10/100 Mbps) Intel 82562 EM, PCI Ethernet
I/O Interface	2 x USB 2.0 1 x LPT 2 x RS-232 1 x RS-422/485 1 x PS/2	2 x RS-232 1 x RS-422/485 2 x USB 2.0 1 x PS/2	1 x RS-232 1 x RS-422/485 2 x USB 1.1 1 x LPT	3 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT	2 x RS-232 6 x USB 2.0 1 x LPT
Drive Interface	1 x IDE	1 x IDE	1 x IDE	1 x IDE	1 x IDE
Audio	-	-	-	Yes	Yes
SSD	1 x CF Type II	1 x CF Type II	1 x CF Type I	1 x CF Type I	1 x CF Type I/ II
Operation Environment	0°~60°C	0°~60°C	0°~60°C	0°~60°C	0°~60°C
Expansion Slot	1 x PCI-104	1 x PC/104	1 x PC/104 1 x PC/104+	1 x PC/104 1 x PC/104+	1 x PCI-104

Anewtech PM- 1057SAC PCI-104, 2 x Serial ATA, RAID 0,1 Support & Compact Flash Slot



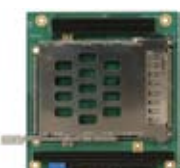
1. PCI-104 form factor with RoHS compliant
2. 2 x Serial SATA with RAID 0,1 function support
3. One Compact Flash slot with Master/ Slave selection

Anewtech PM- 1057SAC PCI-104, Card Bus PCMCIA module



1. 1 x CompactFlash™ Type II Socket
2. Supports IBM Microdrive
3. 1 x 44-pins & 1 x 40-pins IDE interface by pin-header
4. 1 x RS-232
5. 1 x RS-232/422/485
6. Interrupt Selectable (IRQ 3/10 for COM1; IRQ 4/11 for COM2; IRQ 5/7 for LPT)
7. I/O address Selectable (3E8H/3F8H for COM1;

Anewtech PM- 1037-RS PC/104 Compact Flash Converter Board with 2SIP



1. Chipset: RICOH R5C485 Card Bus controller
2. Data Bus: 32-Bit, 33MHz (133MB/s)
3. PC Card 95/97/98 32-bit CardBus compatible
4. Supports Plug & Play auto-detected & config.
5. Windows® 98/ME/NT/2000/XP
6. Accepts PCMCIA Type I/II/III
7. 1 x PCMCIA slot

Anewtech PM- 1033-RS TOPRO TP6508 LCD/ CRT VGA



1. Video Controller :
 - Chip : TOPRO TP6508IQG
 - VRAM : 1MB
 - Resolution : 1024 x 768 (64K colors)
 - Output :
 - 2x5 pin-header for CRT display
 - 2x22 pin-header for LCD panel
2. One DiskOnChip socket on board
3. TOPRO TP6508IQG LCD/CRT VGA controller on board
4. One DiskOnChip socket on board

PC/ 104 Communication Series

Anewtech PM- 2004

4 port isolated RS-232/422/485 serial communication PC/ 104 Module



1. PCI-104 form factor
2. mPCI954+16C954 UART Controller
3. 4-port isolated RS-232/422/485
4. Support shared IRQ
5. PCI Revision 2.1 compliant
6. Isolated protection
7. 128-byte deep FIFO per transmitter and receiver

Anewtech PM- 2008

8 port isolated RS-232/422/485 serial communication PC/ 104 Module



1. PCI-104 form factor
2. mPCI954+16C954 UART Controller
3. 8 port Isolated RS-232/422/485
4. Support Shared IRQ
5. PCI Revision 2.1 compliant
6. Isolated protection
7. 128-byte deep FIFO per transmitter and receiver

Anewtech PM- 1004

4 port non- isolated RS-232/422/485 serial communication PC/ 104 Module



1. PC/104 form factor
2. 16C554 UART controller
3. 4 jumper selectable RS-232 or RS-422/485
4. Supports shared IRQ or independent IRQ mode
5. Jumper selectable interrupt level
6. MAX. baud rate: 921.6kb/s

Anewtech PM- 1028

4 or 8 port isolated RS-232/422/485 serial communication PC/ 104 Module



1. PC/104 form factor
2. 16C554 UART controller
3. Supports shared IRQ or independent IRQ mode
4. Jumper selectable interrupt level
5. COM port base I/O addressing setting
6. MAX. baud rate: 921.6kb/s
7. Interrupt vector addressing setting

Anewtech PCM-3643

4 / 8 RS-232 COM Port Module



1. Eight port RS-232 support
2. RS-232: TX, RX, RTS, CTS, DSR, DCD, DTR, RI
3. IRQ selected for each serial port
4. Share IRQ (4/8 ports share same IRQ)
5. Full duplex serial communication
6. Jumper selectable interrupt level
7. Ribbon cabling from 40-pin headers to standard DB9 connectors provided

Anewtech PCM-3665



1. Supports both Intel® 82541PI
2. Supports Half / Full duplex flow control
3. 10/100/1000BASE-T Ethernet
4. Supports Windows® NT 4.0, Windows® 98/2000/XP
5. Chipset Intel 82541PI (PCI 0/100/1000Base-T)
6. Port Single/Twin Ethernet port
7. Network Port Provide a standard IEEE 802.3 Ethernet Interface for 1000Base-T, 100Base-TX, and 10Base-T applications (802.3, 802.3u, and 802.3ab)
8. Compatibility PCI version 2.2, 33MHz PCI

Anewtech PCM-3620



1. 4 x USB 2.0 compliant ports, up to 480 Mbps
2. USB EHCI 1.0 and PHCI 1.0a compatible
3. 3 x IEEE 1394a compliant ports, up to 400 Mbps
4. IEEE 1394a OHCI 1.1 compliant
5. Chipset NEC uPD720101 and TI TSB43AB23
6. USB 4 x USB 2.0 Compliant Ports Compliant with OHCI USB Rev 1.0a Compliant with EHCI for USB Rev 1.0

Anewtech PCM-3112



1. Supports 4 SATA devices
2. Standalone PCI to Serial ATA host controller chip
3. Programming Interface for Bus Master
4. Provides 8 bits General Purpose I/O (GPIO)
5. PC104+ expansion connector
6. SATA Chip Silicon Image® SiI3114
7. GPIO For 4 Activity LEDs

Anewtech PCM-3115



1. Low power consumption (Hardware Suspend)
2. Compliant with PC Card 95/97/98, Card-32 (32 Bit), PCMCIA V2.1/JEIDA 4.2 (16 Bit)
3. Accepts Type I/II/III PCMCIA cards
4. Supports 2 PCMCIA slots
5. Chipset Ricoh® Card Bus Controller
6. 16-bit Legacy Mode YES (3E0/3E2 I/O port)
7. PCI way Legacy DMA YES supported
8. Data Bus 32-Bit data bus (Compliant with PCI Bus Specification 2.1)
9. PCI Interface 3.3 V interface (5 V tolerant)

Anewtech PCM-3117



1. PCI-104 CPU module (PCM-3380) be able to control PC/104 peripheral (ISA bus)
2. Supports two COM RS-232/422/485
3. Controller ITE IT8888F
4. Bus PC/104 (ISA) and PC/104+ (PCI)

1
Industrial
Computer

2
Compact PC

3
Embedded
Computer

4
Panel PC/
LCD Monitor

5
Human
Machine
Interface

6
Digital
Advertising

7
Serial &
Wireless
Connectivity

8
Digital Video
Surveillance

9
Network
Security
Appliance

10
Data
Acquisition
& Control

11
Industrial
RFID

12
Industrial
Ethernet
Switch

13
Medical PC

14
Power
Supply

15
Accessories

PC/ 104 Communication & I/O Module

Anewtech PM- 3001



PC/ 104 Module with two isolated CAN, eight isolated DI and eight isolated DO

System Hardware
Bus Interface
PC/104

Digital Input Signals
8-port isolated digital input
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 70 VDC over-voltage protection
- 0 VDC~ 50 VDC input range & 10 kHz

Digital Output Signals
8-port Isolated Digital Output
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 200 mA max/channel sink current
- 5 VDC~ 30 VDC output range and 10 kHz

Anewtech PM- 3004



PC/ 104 Module with two isolated CAN, eight isolated DI, eight isolated DO and two channel AI

System Hardware
Bus Interface
PC/104

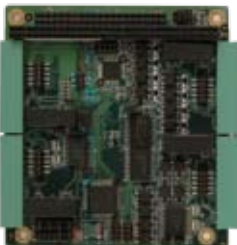
Digital Input Signals
8-port Isolated Digital Input
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 70 VDC over-voltage protection
- 0 VDC ~ 50 VDC input range & 10 kHz

Digital Output Signals
8-port isolated digital output
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 200 mA max/channel sink current
- 5 VDC~ 30 VDC output range and 10 kHz

Analog Input Signals
2-ch Thermocouple Inputs
- JKTE type
- Input range" ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 20 mA
- T/C types and temperature ranges :
J : $0^{\circ}\text{C} \sim 760^{\circ}\text{C}$, K : $0^{\circ}\text{C} \sim 1370^{\circ}\text{C}$,
T : $-100^{\circ}\text{C} \sim 400^{\circ}\text{C}$, E : $0^{\circ}\text{C} \sim 1000^{\circ}\text{C}$

CAN Communication Interface
2-ch Isolated CAN
- Compatible with CAN specifications 2.0
- 3000 VDC isolated by photo coupler for dual ports.

Anewtech PM- 3002



PC/ 104 Module with four channel counter/timer, 16 isolated DI and 16 isolated DO

System Hardware
Bus Interface
PC/104

Digital Input Signals
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 70 VDC over-voltage protection
- 0 VDC ~ 50 VDC input range & 10 kHz

Digital Output Signals
16-port isolated digital output
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 200 mA max/channel sink current
- 5 VDC ~ 30 VDC output range and 10 kHz

Counter / Timer
4x 16-bit:
- Counter source: DI6 & DI7 , DI14&DI15
- Pulse output: DO6 & DO7 , DO14&DO15
- Time base: 100/10/1 kHz, 100 Hz

Anewtech PM- 3004



PC/ 104 Module with industrial Quad-band GSM/GPRS Modem

- Bus Interface: PC/104
- 2-Watt EGSM 900 / GSM 850 radio section
- 1-Watt GSM 1800/1900 radio section
- Chipset: WAVECOM Q24 Plus
- Quad-Band GSM 850/900/1800/1900 MHz , GPRS Class 10
- Antenna: IPEX type
- Operating Voltage: 5 V
- Operating Temperature: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$
- Consumption current: < 2 A
- Supports AT command
- Supports KAMIO series carry boards and VITO / IOVU series

Anewtech PM- 3003



PC/ 104 Module with eight isolated DI and eight isolated DO and two channel AI

System Hardware
Bus Interface
PC/104

Digital Input Signals
8-port Isolated Digital Input
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 70 VDC over-voltage protection
- 0 VDC~ 50 VDC input range & 10 kHz

Digital Output Signals
8-port isolated digital output
- 2000 VDC isolated protection
- 2000 VDC ESD protection
- 200 mA max/channel sink current
- 5 VDC ~ 30 VDC output range and 10 kHz

Analog Input Signals
2-ch Thermocouple Inputs
- JKTE type
- Input range: ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 20 mA
- T/C types and temperature ranges :
J : $0^{\circ}\text{C} \sim 760^{\circ}\text{C}$, K : $0^{\circ}\text{C} \sim 1370^{\circ}\text{C}$,
T : $-100^{\circ}\text{C} \sim 400^{\circ}\text{C}$, E : $0^{\circ}\text{C} \sim 1000^{\circ}\text{C}$

Embedded Computer

A series of industrial grade fan-less computers that has revolutionarily changed the design and applications of embedded computing for space-critical industrial solutions forever. Recently, Anewtech further unveils the industrial grade of fanless embedded series with the Intel® Core™ 2 DUO technology to boost the already high processing with even lower power consumption.

With its revolutionary and compact design, the Anewtech Embedded Systems series is suitable in a wide range of space-critical industrial applications and building automation with little or no maintenance, such as facility management, factory automation, motion Automation, and much more.

All embedded systems series are compatible with energy saving low TDP processors. The revolutionary design of its 100% aluminum chassis functions as a giant heatsink effectively cooling the system by transferring the heat out of the system.

The embedded systems series is ideal for customers who are concerned about power consumption and heat dissipation without compromising the computing performance.

Features and Benefits

- **Cost-effective Solution**
The open-architecture and ready-for-application platform design offer great cost savings
- **Quick Configuration**
All embedded systems are designed with the ease of use. Users can easily configure and implement the unit in a short period of time.
- **Robust and Compact Design**
The sturdy aluminium chassis protects the unit in harsh environment, while the compact design enhance the installation in space-critical application.
- **Low maintainance cost**
Fanless design eliminate the system failure caused by fan breakdown and dust gets into the system
- **Environmental Friendly Solution**
The RoHS compliant and low power enegy saving offer green products to fight against global warming.

Application:

- Building Automation , such as medical application, digital surveillance, access control
- Motion Automation, such as CNG, GNC
- Smart Instrument, such as public information, kiosk, gaming machine



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11	Industrial RFID
12	Industrial Ethernet Switch
13	Medical PC
14	Power Supply
15	Accessories

Embedded Computer

Embedded Box



Model Name	Anewtech ARK-3390	Anewtech ARK-1370	Anewtech ARK-1380	Anewtech ARK-3389	Anewtech ARK-3383	Anewtech ARK-3382
CPU Type	Intel® Core™ 2 Duo	Embedded AMD Geode onboard LX800-500MHz	Intel® Celeron® UVL onboard 1.0GHz	Intel® Celeron® 1.0 GHz UVL / Intel® Pentium® MLV onboard 1.4GHz	Intel® Celeron® 1.0 GHz UVL / Intel® Pentium® MLV onboard 1.4 GHz	Intel® Celeron® UVL 1.0 GHz / Intel® Pentium® MLV onboard 1.4 GHz
Chipset	945GME + ICH7-M	AMD Geode CS5536	Intel® 852GM + ICH4	Intel® 852GM / Intel® 855GME + ICH4	Intel® 852GM / Intel® 855GME + ICH4	Intel® 852GM / Intel® 855GME + ICH4
Memory	Up to 2GB DDR2 533/667 MHz	Up to 1GB DDR SDRAM SODIMM	Up to 1GB DDR SDRAM SODIMM	Up to 1GB DDR SDRAM SODIMM	Up to 1GB DDR SDRAM SODIMM	Up to 1GB DDR SDRAM SODIMM
HDD Space	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay (Optional)	1 x 2.5" HDD Bay (Optional)	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay
SSD	CF Type I / II	CF Type I / II	CF Type I / II	CF Type I / II	CF Type I / II	CF Type I / II
Display Interface	CRT, 48 bit LVDS (optional), DVI-D	CRT, 24 bit LVDS, TV Out	CRT, 36 bit LVDS	CRT, 36 bit LVDS	CRT, 36 bit LVDS	CRT, 36 bit LVDS
I/O Interface	1 x RS-232 port 3 x RS-232/422/485 2 x RS-422/485 5 x USB port 1 x PS/2 port	4 x USB 2.0 2 x RS-232/422/485 1 x PS/2	4 x USB 2.0 2 x RS-232/422/485 1 x PS/2	1 x USB 2.0 1 x RS-232 1 x RS-232/422/485 1 x PS/2	7 x USB 2.0 1 x RS-232 3 x RS-232/422/485 1 x PS/2	1 x USB 2.0 1 x RS-232 1 x RS-232/422/485 1 x PS/2
Ethernet	10/100/1000 Mbps	1 x 10 / 100 Mbps	1 x 10 / 100 Mbps	1 x 10 / 100 Mbps	1 x 10 / 100 Mbps	4 x 10 / 100 Mbps
Audio	Yes	Yes	Yes	-	Yes	-
Power Input Range	9 - 34 V	9 - 35 V	9 - 35 V	12 -24 V	12 -24 V	12 -24 V
Expansion Slot	1 x Mini PCI	1 x PCMCIA	1 x PCMCIA	1 x MIO Socket	-	-
Dimension (WxDxH)	264.5 x 69.2 x 137.25 mm	189 x 41 x 136.5 mm	189 x 41 x 136.5 mm	264.5 x 69.2 x 137.25 mm	264.5 x 69.2 x 137.25 mm	264.5 x 69.2 x 137.25 mm
Operation Environment	0 ~ 55° C with CF 0 ~ 45° C with HDD	-20 ~ 60° C with CF 0 ~ 45° C with HDD	-20 ~ 60° C with CF 0 ~ 45° C with HDD	-20 ~ 60° C with CF 0 ~ 45° C with HDD	-20 ~ 60° C with CF 0 ~ 45° C with HDD	-20 ~ 60° C with CF 0 ~ 45° C with HDD

Embedded Computer

Embedded Box



Model Name	Anewtech ARK-3381	Anewtech ARK-3380	Anewtech ARK-4180	Anewtech ARK-4153	Anewtech ARK-5280	Anewtech NISE 2020
CPU Type	Intel® Celeron® UVL 1.0GHz / Intel® Pentium® MLV onboard 1.4GHz	Intel® Celeron® UVL 1.0GHz / Intel® Pentium® MLV onboard 1.4GHz	Intel® Pentium® M 1.4GHz	AMD Geode LX800 onboard	Intel® Pentium® M / Celeron® / Socket 479 1.8GHz	On-board Intel® Atom™ N270
Chipset	Intel® 852GM / Intel® 855GME + ICH4	Intel® 852GM / Intel® 855GME + ICH4	855GHE ICH4	CS5536	Intel® 855GME + ICH4	Intel® 945GSE Intel® ICH7M
Memory	Up to 1GB DDR SDRAM SODIMM	Up to 1GB DDR SDRAM SODIMM	256 / 512 MB DDR SDRAM	256 MB DDR SDRAM	2GB DDR SDRAM SODIMM	Up to 2GB DDR2 SODIMM
HDD Space	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	Optional	Optional	1 x 2.5" HDD Bay	1 x 2.5" SATA HDD
SSD	CF Type I / II	CF Type I / II	CF Type I	-	CF Type I / II	CF Type I / II
Display Interface	CRT, 36 bit LVDS	CRT, 36 bit LVDS, DVI, TVout	CRT , LVDS (Optional)	CRT	CRT, 36 bit LVDS (Optional) DVI	VGA
I/O Interface	1 x USB 2.0 2 x LPT 2 x RS-232 5 x RS-232/422/485 1 x PS/2	1 x USB 2.0 1 x RS-232 1 x RS-232/422/485 1 x PS/2	6 x USB 2.0 1 xLPT 2 x RS-232 1 x PS/2	4 x USB 2.0 1 xLPT (Optional) 3 x RS-232 1 x RS-485 1 x PS/2	4 x USB 2.0 (2 Optional) 1 x LPT (Optional) 3 x RS-232 1 x RS-232/422/485 1 x PS/2	4 x USB2.0 1 x LPT 2 x RS232 2 x RS232/422/485
Ethernet	1 x 10 / 100 Mbps	1 x 10 / 100 Mbps	1 x 10 / 100 Mbps	2 x 10 / 100 Mbps	1 x 10 / 100 Mbps	Dual 1000/100/10 Mbps LAN ports
Audio	-	Yes	Yes	Yes	Yes	Yes
Power Input Range	12 -24 V	12 -24 V	100 - 240 V	100 - 240 V	9 - 32 V	16V to 30VDC
Expansion Slot	-	-	1 x PCI-104	1 x PCI-104+	2 x PCI	2 x PCI 1 x Mini-PCle
Dimension (WxDxH)	264.5x69.2x 137.25 mm	264.5x69.2x 137.25mm	164x170x49.2 mm	164x170x49.2 mm	137x189x221mm	195x200x108mm
Operation Environment	-20 ~ 60°C with CF 0 ~ 45°C with HDD	-20 ~ 60°C with CF 0 ~ 45°C with HDD	-40 ~ 75°C	-40 ~ 80°C	-20 ~ 55°C with CF 0 ~ 45°C with HDD	-5°C to 55°C

1
Industrial
Computer

2
Compact PCI

3
Embedded
Computer

4
Panel PC/
LCD Monitor

5
Human
Machine
Interface

6
Digital
Advertising

7
Serial &
Wireless
Connectivity

8
Digital Video
Surveillance

9
Network
Security
Appliance

10
Data
Acquisition
& Control

11
Industrial
RFID

12
Industrial
Ethernet
Switch

13
Medical PC

14
Power
Supply

15
Accessories

Embedded Computer

Embedded Box



Model Name	Anewtech NISE 2010	Anewtech NISE 2000	Anewtech NISE 3110	Anewtech NISE 3110P2	Anewtech NISE 3100	Anewtech NISE 3150
CPU Type	On-board Intel® Atom™ N270	On-board Intel® Atom™ N270	Intel® Core 2 Duo/Core Duo/ Core Solo	Intel® Core 2 Duo/ Core Duo/Core Solo	Intel® Pentium® M/Celeron® M	Intel® Pentium® M/Celeron® M
Chipset	Intel® 945GSE chipsets	Intel® 945GSE Intel® ICH7M	Intel® 945GME	Intel® 945MEISH7-MDH	Intel® 852GM/ ICH4	Intel® 852GM/ ICH4
Memory	Up to 2GB DDR2 SODIMM, single channel	Up to 2GB DDR2 SODIMM, single channel	4 GB DDR2 (2 x DIMM) 533 / 667	4 GB DDR2 (2 x DIMM)	2 GB DDR (1 X 2 x DIMM)	2 GB DDR (1 X 2 x DIMM)
HDD Space	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay
SSD	CF Type I / II	CF Type I / II	1 x Internal CF	1 x Internal CF	1 x Internal CF	1 x Internal CF
Display Interface	VGA	VGA	VGA/ LVDS/ DVI	VGA/ LVDS/ DVI	VGA/ LVDS/ DVI/ TV Out	VGA/ LVDS/ DVI/ TV Out
I/O Interface	4 x USB2.0 1 x LPT 2 x RS232 2 x RS232/422/485	4 x USB2.0 2 x RS232 2 x RS232/422/485	3 x RS-232 6 x USB 2.0 1 X RS-422/485	3 x RS-232 6 x USB 2.0 1 X RS-422/485	4 x RS-232 6 x USB 2.0 1 X IEEE 1394	4 x RS-232 6 x USB 2.0 1 X LPT 1 X IEEE 1394
Ethernet	Dual 1000/100/10 Mbps	Dual 1000/100/10 Mbps	2 x GbE	2 x GbE	2 x 10/100	2 x 10/100
Audio	Yes	Yes	Yes	Yes	Yes	Yes
Power Input Range	16V to 30VDC	16V to 30VDC	DC + 12V~+30v	DC + 12V~+30v	DC + 12V~+30V	DC + 12V~+30V
Expansion Slot	1x PCI 1 x Mini-PCIe	1 x Mini-PCIe	1 x PCI	2 x PCI	1 x PCI	No
Dimension (WxDxH)	195x200x81mm	195x200x65 mm	195x268x88 mm	195x268x107 mm	195x268x80 mm	195x268x80 mm
Operation Environment	-5°C to 55°C	-5°C to 55°C	-5°C ~ 55°C	-5°C ~ 55°C	-20°C ~ 50°C	-20°C ~ 50°C

Embedded Computer

Embedded Box



Model Name	Anewtech NISE 3120	Anewtech NISE 3270	Anewtech NISE 3200	Anewtech eBOX620-823-FL	Anewtech eBOX-530-820-FL	Anewtech eBOX600-FL
CPU Type	AMD Geode™ LX800	Intel® Atom™ N270	Intel® Pentium® M/Celeron® M	Intel® Atom™ Z510PT	Intel® Atom™ Z510	Intel® Celeron®/ Pentium® M
Chipset	AMD Geode™ LX800/ CS5536	ICES 170 ETX Module	Intel® 852GM/ ICH4	Intel® SCH US15WPT	Intel® US15W core logic	Intel® 915GME/ 910GML+ ICH6M
Memory	1 GB DDR (1 X SO-DIMM)	1 GB DDR (1 X SO-DIMM)	1 GB DDR (1 X SO-DIMM)	Up to 2GB DDR2 SODIMM	Up to 2GB DDR2 SODIMM	1 GB DDR
HDD Space	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay	1 x 2.5" HDD Bay
SSD	1 x CF	1 x CF	1 x CF	1 x CF	1 x CF	1 x CF
Display Interface	VGA	VGA	VGA	VGA	VGA	VGA
I/O Interface	4 x RS-232 4 x USB 2.0 1 X LPT 1 X IEEE 1394	2 x RS232 2 x RS422/485 4 x USB 2.0 1 X LPT	4 x RS-232 4 x USB 2.0 1 X LPT 2 X RS-422/485	2 x RS-232 4 x USB 2.0 1 x PS/2	2 x RS-232 4 x USB 2.0 1 x PS/2	2 x RS232/422/485 1 x LPT 4 x USB 2.0
Ethernet	2 x 10/100	2 x 10/100	2 x 10/100	1 x 10/100/1000	1 x 10/100/1000	1 x 10/100/1000
Audio	Yes	Yes	Yes	Yes	Yes	No
Power Input Range	DC + 12V	DC +9V~+36V	DC +9V~+36V	DC 12V	DC 5V	DC 24V
Expansion Slot	1 x Mini-PCI	1 x PCMCIA 1 x PC/104+	1 x PCMCIA 1 x PC/104+	1 x Express Mini card (USB signal)	N/A	N/A
Dimension (WxDxH)	195 x 150 x 80mm	260 x 176 x 55mm	260 x 176 x 55mm	200 x 120 x 56 mm	132x 95.4 x 7.5mm	250 x 150 x 61 mm
Operation Environment	-20°C ~ 50°C	5°C to 40°C (HDD) -10°C to 50°C (CF)	-20°C ~ 50°C	-20°C ~ +70°C	0°C ~ +45°C	-10°C ~ 60°C

- 1 Industrial Computer
- 2 Compact PCI
- 3 Embedded Computer
- 4 Panel PC/ LCD Monitor
- 5 Human Machine Interface
- 6 Digital Advertising
- 7 Serial & Wireless Connectivity
- 8 Digital Video Surveillance
- 9 Network Security Appliance
- 10 Data Acquisition & Control
- 11 Industrial RFID
- 12 Industrial Ethernet Switch
- 13 Medical PC
- 14 Power Supply
- 15 Accessories

Embedded Computer

Embedded Box



Model name	Anewtech eBOX638-FL	Anewtech eBOX646-FL500	Anewtech eBOX738-FL	Anewtech eBOX748-FL	Anewtech eBOX745-FL500	Anewtech ECK-161B
CPU Type	Intel® Celeron® M/ Pentium® M	500MHz AMD LX800	Intel® Celeron®/ Pentium® M	Intel® Celeron®/ Pentium® M	AMD LX800 500MHz	Intel® Core™ Duo/ Solo
Chipset	Intel® 855GME/ 852GM+ 6300ESB	AMD LX + CS5536 + ITE8888G	Intel® 855GME/ 852GM+ 6300ESB	Intel® 825GM + ICH4	AMD LX + CS5536 + ITE8888G	Intel® 945GM+ICH7M
Memory	1 GB DDR DIMM	1 GB DDR SODIMM	1 GB DDR DIMM	1 GB DDR SODIMM	1 GB DDR SODIMM	1 GB DDR2 SDRAM pre- installed
HDD Space	2.5"	-	2.5"	2.5"	1 x 2.5"	1 x 2.5" SATA
SSD	1 x CF	1 x CF	1 x CF	1 x CF	1 x CF	1 x CF
Display Interface	1 x VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA HDTV
I/O Interface	3 x RS 232 1 x RS232/422/485 1 x LPT 4 x USB 2.0 1 x PS/2	3 x RS 232 1 x RS232/422/485 3 x USB 2.0 1 x PS/2	3 x RS 232 1 x RS232/422/485 1 x LPT 2 x USB 2.0 1 x PS/2	1 x RS232 1 x RS232/422/485 1 x LPT 4 x USB 2.0 1 x PS/2	3 x RS232 1 x RS232/422/485 1 x LPT 1 x PS/2 3 x USB 2.0	6 x USB 2.0 4 x RS-232
Ethernet	1 x 10/100	2 x 10/100	2 x 10/100	1 x 10/100	2 x 10/100	2 x PCIe Broad- com GbE
Audio	Yes	No	No	Yes	No	Yes
Power Input Range	DC 12V~24V	DC 5V	DC 12V~24V	DC 10V~30V	DC 24V~48V	9 VDC - 36 VDC input by terminal block
Expansion Slot	1 x Mini PCI 2 x PCI-X 1 x PC/104	1 x Internal CFII	1 x Internal CFII	1 x Internal CFII	-	1 x PCI
Dimension (WxDxH)	230x180x126.2mm	200x139x43 mm	225x275x90 mm	205x250x56mm	225x225x51 mm	222.2x 210.2x 99.49mm
Operation Environment	-10°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C	0~40°C

Embedded Computer

Embedded Box



Model name	Anewtech ECK-3699GE	Anewtech ECN-170BSEB/ ECN-170BSE0	Anewtech ECW-281B-945GSE	Anewtech ECW-281B	Anewtech ECW- 181BLX2
CPU Type	Intel Pentium® 4 3.44 GHz	Celeron® M 1.5 GHz or Pentium® M 1.6 GHz	Intel® Atom™ N270 1.6GHz	ULV Intel® Celeron® M 1 GHz	AMD® Geode LX 800 500MHz
Chipset	Intel® 945G + ICH7	Intel® 852GM + ICH4	Intel® 945GSE + Intel® 82801GBM/ICH7M	Intel® 852GM + ICH4	AMD® Geode LX 800 + AMD® CS5536
Memory	Max.4 GB, DDR2 SDRAM DIMM	Max. 1GB DDR SDRAM SO-DIMM	Max. 1GB DDR2 SDRAM SO-DIMM	Max. 1GB DDR SDRAM SO-DIMM	Max. 1GB DDR SDRAM SO-DIMM
HDD Space	2.5" HDD (optional)	-	1 x 2.5" SATA HDD	1 x 2.5" IDE	1 x 2.5" IDE
SSD	Optional Slim CD-ROM module	1 x CF	1 x CF	1 x CF	1 x CF
Display Interface	1 x VGA	VGA	CRT interface intergrated in 945GSE	VGA	VGA
I/O Interface	6 x USB 2.0 3 x RS-232	4 x USB 2.0 3 x RS-232 1 x RS-232/ 422/ 485	6 x RS-232 4 x USB 2.0	4 x USB 2.0 5 x RS-232, 1x RS-232- /422/485 selectable	4 x USB 2.0 7 x RS-232, 1 x RS-232422/485
Ethernet	Dual Broadcom BCM5787 PCI-e GbE	1 x Intel® 82541PI GbE	Dual Realtek RTL8111-CP GbE controllers	Dual Realtek RTL8110SC GbE	1 x (10/100M) RTL8100C
Audio	Yes	Yes	Yes	Yes	-
Power Input Range	DC: 19 VDC	9 VDC ~ 36 VDC	9 VDC - 36 VDC	9 VDC ~ 36 VDC	9 VDC ~ 36 VDC
Dimension (WxDxH)	258 x 210 x 65 mm	250 x 62 x 150 mm	132 x 229 x 64mm	132 x 229 x 64 mm	122.2 x 203.6 x 59.8 mm

1

Industrial Computer

2

Compact PCI

3

Embedded Computer

4

Panel PC/ LCD Monitor

5

Human Machine Interface

6

Digital Advertising

7

Serial & Wireless Connectivity

8

Digital Video Surveillance

9

Network Security Appliance

10

Data Acquisition & Control

11

Industrial RFID

12

Industrial Ethernet Switch

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Medical PC

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Power Supply

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Accessories

Embedded Computer

Embedded Box



Model name	Anewtech ECW-180B	Anewtech ulBX-200-VX800	Anewtech IBX-530-945GSE	Anewtech IBX-650A	Anewtech IBX-500A
CPU Type	AMD® Geode® LX 800 500 MHz	VIA® Eden™ ULV 1GHz/500MHz	Intel® Atom™ N270 1.6GHz	ULV Intel® Celeron® M 1GHz	AMD® Geode LX 800 500MHz
Chipset	AMD® CS5536	VIA VX800 all-in-one digital media IGP	Intel® 945GSE / Intel® 82801GBM/ICH7M	Intel® 852GM + ICH4	AMD® LX 800 + CS-5536
Memory	Max. 1GB DDR SDRAM SO-DIMM	1GB/512MB DDR2 SDRAM onboard	Built in 1GB DDR2 SO-DIMM	512 MB 266 MHz DDR SO-DIMM	256 MB / 512 MB DDR
HDD Space	-	1 x PCIe mini card slot	1 x external SATA	1 x 2.5" IDE	-
SSD	1 x CF 2 x SD	1 x CF	1 x CF	1 x CF	1 x CF
Display Interface	VGA	CRT interface intergrated in VX800 with one VGA port	Dual GbE, Realtek RTL8111CP	VGA	VGA
I/O Interface	2 x USB 2.0 2 x RS-232	4 x USB 2 x RS-232	4 x USB 2.0 2 x RS-232	3 x USB2.0 2 x RS-232 1 x RS-232/422/485	3 x RS 232 2 x USB 2.0
Ethernet	Dual 10/100BASE-T RTL8100C	Realtek RTL8111CP GbE	Dual GbE, Realtek RTL8111CP	1 x (10/100Mbps) Intel® 82562ET	2 x 10/100 Mbps Wireless: VIA VT6655 802.11b/g compliance
Audio	-	Yes	Yes	Yes	Yes
Power Input Range	9 VDC ~ 36 VDC	5VDC	12VDC	12 VDC in with DC jack	12 VDC
Dimension (WxDxH)	163 x 200 x 60 mm	120 x 125 x 44mm	210 108.2 x 39mm	170 x 210.2 x 68.75 mm	210 x 109 x 38 mm
Operation Environment	0°C~50°C	0°C~50°C	-10°C ~ 50°C	0~50°C	0°C ~ 50°C