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WAFER-945GSE3

3.5" SBC with Intel® Atom™ Processor N270 1.6G, LVDS/TTL, 4COM and PC/104

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Industrial Computer Leader

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WAFER-945GSE3

3.5" SBC with Intel® Atom™ Processor N270 1.6G, LVDS/TTL, 4 COM and PC/104

FSB 533

Dual Display

Fanless

USB

Gigabit Ethernet

SERIAL ATA

Features

- Intel® Atom™ N270 1.6GHz CPU for Ultra Low Voltage fan-less support
- Support Dual display for VGA+LVDS, VGA+TTL
- Support 4 x COM, 4 x USB2.0, 2 x SATA and CF Type II socket
- Support PC/104 ISA expansion slot
- Low Profile heatsink design
- Rear I/O same as WAFER-9371A and WAFER-8523

Ship with Heat sink
(Heatsink height 16mm)

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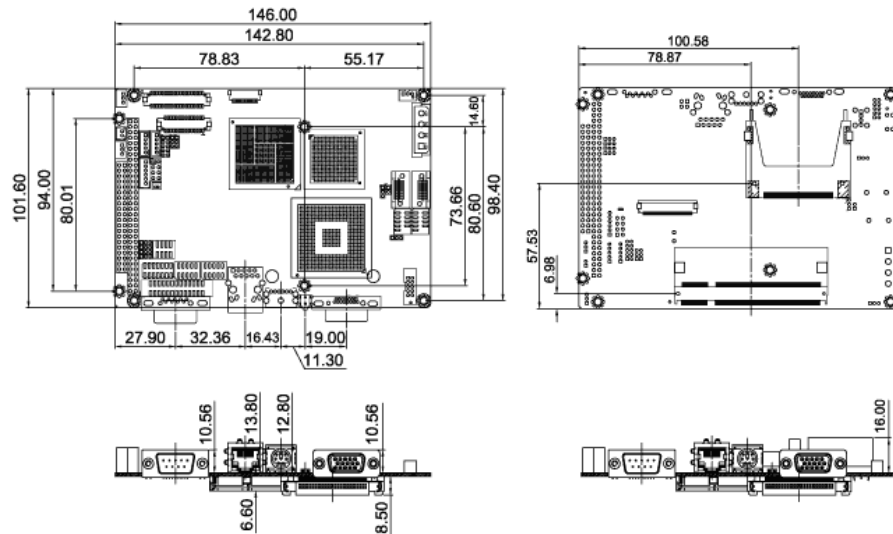
Specifications

CPU	Intel® Atom™ Processor N270 1.6GHz with a 533Mhz FSB
System Chipset	Intel® 945GSE Intel® 82801GBM/ICH7M
BIOS	AMI BIOS
Memory	One 200-pin 533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
Ethernet	One PCIe Realtek 8111CP GbE chipset
I/O interface	4 x USB 2.0 (Same as WAFER-9371A, WAFER-8523) 2 x SATA 3 x RS-232 (COM1 with 5v/12V power select by jumper) 1 x RS-232/422/485 (COM2 with 5V/12V power select by jumper) 1 x PS/2 for KB/MS 1 x CF Type II
Infrared Interface	1 x Infrared Interface (shared with COM2)
Digital I/O	8-bit digital I/O (4-bit input, 4-bit output)
Expansion	PC/104 (ISA Bus, not support ISA DMA Mode)
Audio	Realtek ALC655 with AC'97 codec
Display Interface	Intel® Graphics Media Accelerator 950 VGA integrated in Intel® 945GSE 18 bit dual-channel LVDS integrated in Intel® 945GSE 18 bit TTL (LVDS to TTL)
Power Supply	5V only, AT/ATX support, 12V for LCD/System FAN/COM
Super IO	Fintek F81865
Watchdog Timer	Software Programmable support 1~255 sec. System reset

Temperature	operation: 0°C~ 60°C (32°F~140°F)
Humidity	operation: 5% ~ 95 non-condensing
Power Consumption	5V@2.54A (Intel® Atom™ N270 1.6G with 2GB DDR2)
Dimensions	146 mm x 102 mm
Weight	GW: 650g / NW 250g


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Mechanical Drawing



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Replacement & Upgrade




WAFER-9371A (EOL)

- 36-bit LVDS
- TTL
- ISA DMA
- IDE, w/o SATA
- CFII
- 2 x USB1.1
- Fanless


Replacement

Upgrade



WAFER-8523

- 48-bit LVDS
- TTL
- ISA DMA
- 1 x SATA
- CF II
- 2 x USB2.0
- Fanless



WAFER-945GSE3

- 36-bit LVDS
- TTL
- ISA, w/o DMA
- 2 x SATA
- CFII
- 4 x USB2.0
- Fanless

▲TOP

Specification Comparison Table

Model Name	WAFER-945GSE3-N270-R10	WAFER-8523-1GZ-R10 WAFER-8523-600-R10	WAFER-9371A-R11
CPU	Intel® Atom™ Processor N270 1.6GHz with a 533Mhz FSB	On-board ULV Intel® Celeron M processor with a 400MHz FSB	On-board ULV Intel® Celeron M processor with a 400MHz FSB
System Chipset	Intel® 945GSE + ICH7M	Intel® 852GM + ICH4	VIA VT8606T + VT82C686B
Memory	One 200-pin 533MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)	One 200-pin 200/266MHz DDR SDRAM SO-DIMM supported (system max. 1GB)	One 144pin PC100/133MHz SDRAM SO-DIMM supported (system max. 512MB)
Ethernet	One PCIe Realtek 8111CP GbE chipset	One Realtek RTL8110SC GbE chipset	One 10/100Mbps Realtek 8100C chipset
I/O interface	4 x USB 2.0 2 x SATA 3 x RS-232 (COM1 with 5v/12V) 1 x RS-232/422/485 (COM2 with 5V/12V) 1 x LPT 1 x PS/2 for KB/MS 1 x CF Type II	2 x USB 2.0 1 x SATA (JMICRON JM20330, IDE to SATA) 1 x RS-232 1 x RS-232/422/485 1 x LPT 1 x PS/2 for KB/MS 1 x CF Type II	2 x USB1.1 1 x IDE 1 x RS-232 1 x RS-232/422/485 1 x LPT 1 x PS/2 for KB/MS 1 x CF Type II
Infrared Interface	1 x Infrared Interface	1 x Infrared Interface	1 x Infrared Interface
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)	N/A
Expansion	PC/104 (ISA Bus, not support ISA DMA Mode)	PC/104 (ISA Bus, support ISA DMA Mode)	PC/104 (ISA Bus, support ISA DMA Mode)
Audio	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec

Display Interface	Intel® Graphics Media Accelerator 950 VGA integrated in Intel® 945GSE 18 bit dual-channel LVDS integrated in Intel® 945GSE 18 bit TTL (LVDS to TTL)	Intel® Extreme Graphics 2 technology VGA integrated in Intel® 852GM 18 bit dual-channel LVDS integrated in Intel® 852GM (Optional 24 bit dual-channel LVDS supported) 18 bit TTL (LVDS to TTL)	Integrated AGP 4X graphics core VGA integrated in VT 8606T 24 bit TTL integrated in VT8606T 18bit dual-channel LVDS (TTL to LVDS)
Power Supply	5V only, AT/ATX support, 12V for LCD/System FAN/COM	5V only, AT/ATX support, 12V for LCD/System FAN	5V only, AT/ATX support, 12V for LCD
Super IO	Fintek F81865	ITE IT8718	VT82C686B
Watchdog Timer	Software Programmable support 1~255 sec. System reset	Software Programmable support 1~255 sec. System reset	Software Programmable support 1~255 sec. System reset
Power Consumption	5V@2.54A (Intel® Atom™ N270 1.6G with 2GB DDR2)	5V@2.93A (Intel® Celeron M® 1GHz/ without L2 Cache, 512MB DDR400) 5V@2.57A (Intel® Celeron M® 600MHz, 512MB DDR400)	5V@2.01A (Intel® Celeron® 400MHz/ PC133 256MB)

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Packing List

1 x WAFER-945GSE3 single board computer	2 x SATA cable (P/N: 32000-062800-RS)
1 x KB/MS cable (P/N: 32000-133200-RS)	1 x Audio cable (P/N: 32000-072100-RS)
1 x Dual USB cable (P/N: 32000-073400-RS)	2 x RS-232 cable (P/N: 32200-000049-RS)
1 x Mini Jumper Pack	1 x Utility CD
1 x QIG (Quick Installation Guide)	

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Ordering Information

Part Number	Description
WAFER-945GSE3-N270-R10	3.5" SBC with Intel® Atom™ N270 1.6G, VGA/LVDS/TTL, GbE, CFII, USB, SATA, LPT, 4COM and PC/104
32200-026500-RS	RS-232/422/485 Cable
32102-000100-100-RS	SATA Power Cable
32100-000100-200-RS	SATA Power Cable
32100-052100-RS	ATX Power Cable
32200-015100-RS	LPT Cable

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