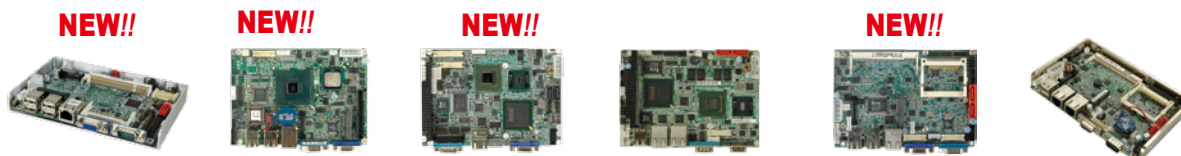


3.5" WAFER Selection Guide



Model Name	WAFER-US15WP2	WAFER-US15WP	WAFER-945GSE3	WAFER-945GSE2	WAFER-945GSELVDS2	WAFER-945GSE
CPU Socket	On board	On board	On board	On board	On board	On board
CPU Type	Intel® Atom™ Processor Z530P 1.6GHz Intel® Atom™ Processor Z510P 1.1GHz	Intel® Atom™ Processor Z530P 1.6GHz Intel® Atom™ Processor Z510P 1.1GHz	Intel® Atom™ Processor N270 1.6GHz	Intel® Atom™ Processor N270 1.6GHz	Intel® Atom™ Processor N270 1.6GHz	Intel® Atom™ Processor N270 1.6GHz
FSB	400/533 MHz	400/533 MHz	533 MHz	533 MHz	533 MHz	533 MHz
Chipset	Intel® US15WP	Intel® US15WP	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M
Memory	One 200-pin, Max. 2 GB, 400/533 MHz DDR2 SO-DIMM	One 200-pin, Max. 2 GB, 400/533 MHz DDR2 SO-DIMM	One 200-pin, Max. 2 GB, 400/533 MHz DDR2 SO-DIMM	On board 1GB DDR2 SDRAM	One 200-pin, Max. 2 GB, 400/533 MHz DDR2 SO-DIMM	One 200-pin, Max. 2 GB, 400/533 MHz DDR2 SO-DIMM
Display Interface	VGA support by Chronitel CH7317 LVDS1: 18/24-bit Dual-Channel LVDS support by SDVO through scaler chip Novatek 6866UFG LVDS2: 18/24-bit Single-channel LVDS intergrated in Intel® US15WP	18/24-bit single-channel LVDS integrated in the Intel® US15WP VGA support by Chronitel CH7317	VGA integrated in the Intel® 945GSE 18-bit dual-channel LVDS 18-bit TTL (LVDS to TTL)	VGA integrated in the Intel® 945GSE 18-bit dual-channel LVDS	VGA integrated in the Intel® 945GSE 18-bit dual-channel LVDS 24-bit dual-channel LVDS (CH7308)	VGA integrated in the Intel® 945GSE 18-bit dual-channel LVDS
Ethernet	Intel® 82574L PCIe GbE chipset	Intel® 82574L PCIe GbE chipset	One Realtek RTL8111CP PCIe GbE chipset	Dual Realtek RTL8111CP PCIe GbE chipsets	Realtek RTL8111CP PCIe GbE chipset	Dual Realtek RTL8111CP PCIe GbE chipsets
I/O Interface	3 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x LPT 1 x PS2 for KB/MS	1 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x PS2 for KB/MS	3 x RS-232 1 x RS-232/422/485 4 x USB 2.0 1 x LPT 1 x PS2 for KB/MS	1 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x PS2 for KB/MS	3 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x PS2 for KB/MS	5 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x PS2 for KB/MS
Drive Interface	1x SATA 1 x CF Type I	1x IDE 1 x CF Type II	2 x SATA 1 x CF Type II	2 x SATA 1 x CF Type II	2 x SATA 1 x CF Type II	2 x SATA 1 x CF Type II
Audio	Realtek ALC888 with HD codec	Realtek ALC888 with HD codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec
Digital I/O	8-bit digital I/O (4 input/4 output)					
Power Consumption	12V@1.15A (Intel® Atom™ Z530P 1.6GHz, 1GB DDR2 533 MHz)	5V@1.48.A (Intel® Atom™ Z530P 1.6GHz, 1GB DDR2 533 MHz)	5V@2.54.A (Intel® Atom™ N270 1.6GHz, 2GB DDR2 533 MHz)	5V@3.1A (Intel® Atom™ N270 1.6GHz, 2GB DDR2 533 MHz)	5V@2.49A (Intel® Atom™ N270 1.6GHz, 2GB DDR2 533 MHz)	5V@2.94A (Intel® Atom™ N270 1.6GHz, 2GB DDR2 533 MHz)
Watchdog Timer	Software programmable supports 1~255 sec. system reset					
Operating Environment	Temperation Range: 0°C ~ 60°C, Relative Humidity: 5% ~ 95% non-condensing	Temperation Range: 0°C ~ 60°C, Relative Humidity: 5% ~ 95% non-condensing	Temperation Range: 0°C ~ 60°C, Relative Humidity: 5% ~ 95% non-condensing	Temperation Range: 0°C ~ 60°C, -20°C ~ 70°C(W) Relative Humidity: 5% ~ 95% non-condensing	Temperation Range: 0°C ~ 60°C Relative Humidity: 5% ~ 95% non-condensing	Temperation Range: 0°C ~ 60°C, -20°C ~ 70°C(W), -40°C ~ 85°C(W2) Relative Humidity: 5% ~ 95% non-condensing
Expension Slot	1 x PCIe Mini Card Slot	1 x PCIe Mini Card Slot	1x PC/104	1x PC/104	1 x PCIe Mini Card Slot	1 x PCIe Mini Card Slot
Recommand Fancooler	Encloure Heatsink	Heatsink	Heatsink	Heatsink	Encloure Heatsink	Encloure Heatsink

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Industrial Computing Solutions2
Embedded Computing Solutions3
Industrial Data Collector and Controller4
Video Capture Solutions5
I/O Communication Solutions6
Panel Solutions7
ORing Network Communication8
Power Supply Peripherals

3.5" WAFER Selection Guide



Model Name	WAFER-9102	WAFER-8523	WAFER-8522	WAFER-LX-R12	WAFER-LX2-R11	WAFER-LX3-R20	WAFER-GX
CPU Socket	On-board / Socket 479	On board	On board	On board	On board	On board	On board
CPU Type	Intel® Pentium® M/ Celeron® M	Intel® ULV Celeron® M 600 MHz 512K cache/ 1 GHz zero cache	Intel® ULV Celeron® M 600 MHz 512K cache/ 1 GHz 512KB/ zero cache	AMD Geode™ LX800	AMD Geode™ LX800	AMD Geode™ LX800	AMD Geode™ GX466
FSB	400 MHz	400 MHz	400 MHz	N/A	N/A	N/A	N/A
Chipset	Intel® 910GML E + ICH6M	Intel® 852GM + ICH4	Intel® 852GM + ICH4	AMD Geode™ LX800 + AMD CS5536	AMD Geode™ LX800 + AMD CS5536	AMD Geode™ LX800 + AMD CS5536	AMD Geode™ GX466 + AMD CS5536
Memory	One 200-pin, Max. 2 GB, 400MHz DDR2 SO-DIMM	One 200-pin, Max. 1 GB, 266 MHz DDR SO-DIMM	1 x 200-pin, Max. 1 GB, 266 MHz DDR SO-DIMM	One 200-pin, Max. 1 GB, 333/400 MHz DDR SO-DIMM	One 200-pin, Max. 1 GB, 400 MHz DDR SO-DIMM	DDR 256 MB on board	1 x 200-pin, Max. 1 GB, 266 MHz DDR SO-DIMM
Display Interface	VGA integrated in the Intel® 910GML E 18/24-bit dual-channel LVDS	VGA Integrated in Intel® 852GM 18-bit dual-channel LVDS 18-bit TTL(LVDS to TTL)	VGA Integrated in Intel® 852GM 18-bit dual-channel LVDS	VGA integrated in the AMD Geode™ LX800 18-bit single channel LVDS (TTL to LVDS) 24-bit TTL	VGA integrated in the AMD Geode™ LX800 18-bit single channel LVDS 24-bit TTL	Integrated in AMD Geode™ LX800 18-bit single channel LVDS 24-bit TTL	VGA integrated in the AMD Geode™ GX466 18-bit single channel LVDS 24-bit TTL
Ethernet	Realtek RTL8111CP PCIe GbE chipset	Realtek RTL8110SC GbE chipset	Dual Realtek RTL8110SC GbE chipsets	Dual Realtek RTL8100CL GbE chipsets	Realtek RTL8100CL Ethernet chipset	Dual Intel 82551ER Ethernet chipset	Dual 10/100Mbps Realtek 8100C Ethernet chipsets
I/O Interface	1 x RS-232 1 x RS-232/422/485 6 x USB 2.0 1 x PS2 for KB/MS 1 x Infrared Interface	1 x RS-232 1 x RS-232/422/485 2 x USB 2.0 1 x PS/2 for KB/MS 1 x Infrared Interface	5 x RS-232 1 x RS-232/422/485 4 x USB 2.0 1 x PS/2 for KB/MS	2 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT 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 for KB/MS	2 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT 1 x PS/2 for KB/MS
Drive Interface	1 x IDE 2 x SATA 1 x CF Type II	1 x SATA 1 x CF Type II	1 x IDE 1 x CF Type II	2 x SATA RAID 1 x IDE 1 x CF Type II	1 x IDE 1 x CF Type II	1 x IDE	2 x SATA RAID 1 x IDE 1 x CF Type II
Audio	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC203 with AC'97 codec	Realtek ALC203 with AC'97 codec	Realtek ALC203 with AC'97 codec	Realtek ALC203 with AC'97 codec
Digital I/O	8-bit digital I/O (4 input/4 output)						
Power Consumption	5V@ 3.11A, 12V@0.37A (Intel® Celeron® M 373 1.0G with 1GB DDR2) 5V@2.94A, 12V@1.57A (Intel® Pentium® M 725 1.6G with 1GB DDR2)	5V@2.93A (Intel® Celeron® M 1GHz/ without L2 Cache, 512MB 400 MHz DDR) 5V@2.57A (Intel® Celeron® M 600MHz, 512MB 400 MHz DDR)	5V@3.43A, 12V@0.13A (Celeron® M 1GHz, 1GB 266 MHz DDR)	5V@1.53A (AMD Geode™ LX 800 1GB 400 MHz DDR)	5V@1.33A (AMD Geode™ LX800 512MB 333 MHz DDR)	5V@1.34A (AMD Geode™ LX 800 with 256MB on board memory)	5V@1.15A (AMD GeodeGX466 256MB 400 MHz DDR)
Watchdog Timer	Software programmable supports 1~255 sec. system reset						
Operating Environment	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) -40°C ~ 85°C (W) Relative Humidity: 5% ~ 95% non-condensing	Temperatation Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing
Expension Slot	1 x PCI-104	1x PCI-104	1x PCI-104	1 x PC/104	1 x PC/104	1 x PC/104	1 x PC/104
Recommand Fancooler	Cooler/Heatsink	Heatsink	Heatsink	Heatsink	Heatsink	Heatsink	Heatsink

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Industrial
Computing
Solutions

2

Embedded
Computing
Solutions

3

Industrial Data
Collector
and Controller

4

Video
Capture
Solutions

5

I/O
Communication
Solutions

6

Panel
Solutions

7

ORing
Network
Communication

8

Power Supply/
Peripherals