

WAFER-ULT-i1

3.5" SBC supports Intel® 22nm 4th/ 14nm 5th Generation Mobile Core™ i7/i5/i3 and Celeron® on-board Processor (ULT), VGA/LVDS/iDP, Dual GbE, PCIe Mini, USB 3.0, SATA 6Gb/s Audio, iRIS-1010 and RoHS



Features

- » 3.5 form factor with 4th/5th generation Intel® ULT SoC supports dual-channel DDR3L DIMMs
- » 12V only single voltage design with AT/ATX mode support
- » 18/24-bit dual-channel LVDS support
- » Support triple independent display via LVDS, VGA and iDP
- » Support PCIe Mini card slot for mSATA, 3G card, wireless card and DOM

Specifications

| System | |
|--------------------------|--|
| CPU | 4th generation Intel® mobile ULT on-board SoC |
| | Intel® Core™ i7-4650U (1.7GHz, dual-core, 4MB cache, TDP=15W) |
| | Intel® Core™ i5-4300U (1.9GHz, dual-core, 3MB cache, TDP=15W) |
| | Intel® Core™ i3-4010U (1.7GHz, dual-core, 3MB cache, TDP=15W) |
| | Intel® Celeron® processor 2980U (1.6GHz, dual-core, 2MB cache, TDP=15W) |
| Memory | Two 204-pin 1600/1333 MHz dual-channel DDR3L SDRAM SO-DIMM |
| Memory Max. | 16GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 146 X 102 |
| Net Weight | 250 |
| Storage | |
| Storage | 2 x SATA :6Gb/s |
| | 1 x mSATA |
| I/O Interface | |
| Display Output | 1 x VGA :up to 2560x1600@60Hz |
| | 1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz) |
| | 1 x iDP :for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz) |
| Ethernet | LAN :1 x Intel® I218LM PHY with Intel® AMT 9.0 support, 1 x Intel® I210-AT PCIe controller with NCSI support |
| Audio | Description: Realtek ALC662 HD Audio codec |
| | 1 x audio (2x5 pin) |
| I/O Interface | 1 x External RS-232 |
| | 2 x Internal RS-232 :2x5 pin, P=2.0 |
| | 1 x Internal RS-422/485 :1x4 pin, P=2.0 |
| | 2 x External USB 3.2 Gen1x1 |
| | 2 x Internal USB 2.0 :2x4 pin, P=2.0 |
| | 1 x PS/2 :1x6 pin |
| Expansion | 1 x PCIe mini Card Slot :mSATA support |
| Power | |
| Power Consumption | 12V@2.72A (Intel® Core™ i5-4300U CPU with two 8 GB 1600 MHz DDR3 memory) |

| | |
|-----------------------|---|
| Power Supply | 12V only DC Input, 1 x internal power connector(2 x 2 pin), support AT/ATX mode |
| Environment | |
| Operating Temperature | -10°C ~ 60°C |
| Storage Temperature | -20°C ~ 70°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

Ordering Information

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|---------------------|--|
| WAFER-ULT-i1-i7-R11 | 3.5" SBC with Intel 22nm 4th Gen ULT Mobile Core i7-4650U processor(ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS |
| WAFER-ULT-i1-i5-R11 | 3.5" SBC with Intel 22nm 4th Gen ULT Mobile Core i5-4300U processor(ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS |
| WAFER-ULT-i1-i3-R11 | 3.5" SBC with Intel 22nm 4th Gen ULT Mobile Core i3-4010U processor(ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS |
| WAFER-ULT-i1-C-R11 | 3.5" SBC with Intel 22nm 4th Gen ULT Mobile Celeron 2980U processor(ULT), VGA/LVDS/iDP, Dual GbE, USB 3.0, PCIe Mini, SATA 6Gb/s Audio, iRIS-1010 and RoHS |

Packing List

| | |
|---|-----------------------------------|
| 1 x WAFER-ULT single board computer with heatsink enclosure | 1 x Audio cable |
| 1 x Dual-port USB 2.0 cable | 1 x Power cable |
| 1 x QIG | 2 x SATA with 5V output cable kit |