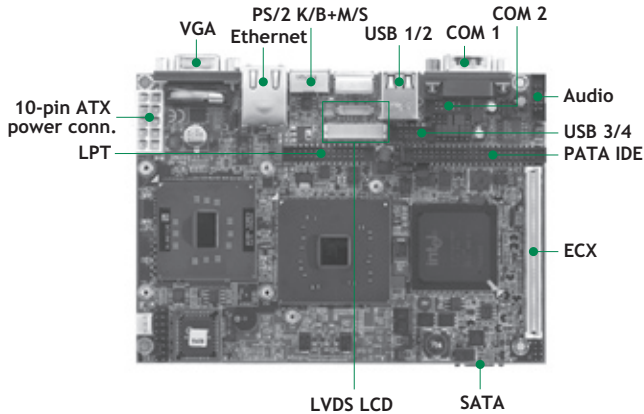


SBC84820

Intel® Celeron® M 3.5" Embedded SBC with Intel® 915GME/910GML E + ICH6M Chipset, DualView, SATA and PCI Express



| |
|----------------|
| 1 G.E. |
| LVDS/VGA |
| RS-232/422/485 |
| CompactFlash™ |
| 4 USB 2.0 |

System

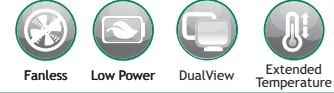
| | |
|-----------------------|---|
| CPU | Intel® Celeron® M processor ULV 373 1GHz/512KB or 1GHz/ZC onboard |
| System Memory | 1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 1GB |
| Chipset | Intel® 915GME/910GML E + ICH6M |
| BIOS | Phoenix-Award |
| SSD | 1 x CompactFlash™ type-II |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x ECX slot supports for SDVO or PCI or PCIe x1 device |
| Battery | Lithium 3V/220 mA |
| Power Requirements | Intel® Celeron® M @ 1.0 GHz/0KB cache, 1GB DDR2 Max. RMS: +5VSB @ 23mA, +5V @ 2.135A, +12V @ 358mA |
| Size | 146 x 104 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | Standard: 0° C ~ +60° C (32° F ~ 140° F) Optional: -20° C ~ +70° C (-13° F ~ +158° F) |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 1 x IDE; PATA-100 1 x FDD 1 x PS/2 keyboard and mouse 1 x RS-232 (COM 2); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x LPT; with SPP/EPP/ECP supported |
| SATA | 1 x SATA-150 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 1 port as 10/100Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82551QM |
| Audio | AC'97 Codec audio as MIC-in/Line-in/Line-out/speaker out with Realtek ALC203 |
| USB | 4 x USB 2.0 |
| Digital I/O | 2 channels IN & 4 channels OUT |

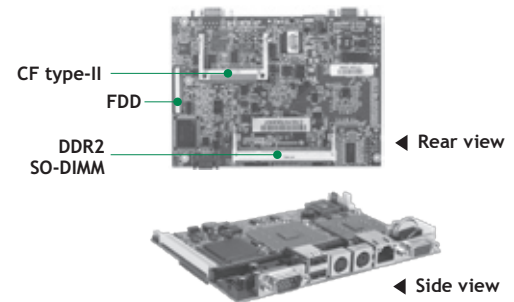
Display

| | |
|-------------------|--|
| Chipset | Intel® GMA 900 graphics Core |
| Memory Size | Intel® DVMT 3.0 compliant |
| Display Interface | 1 x VGA 1 x LVDS; 18-bit single/dual channel 1 x SDVO through ECX interface connector 2 nd VGA via AX93222V 2 nd LVDS; 18/24-bit single/dual channel via AX93208 DVI-D via AX93222D |



Features

- LV/ULV Intel® Celeron® M processor onboard
- Intel® 915GME/910GML E + ICH6M chipset
- DualView with different content & resolution
- 4 USB 2.0 ports
- 1 Serial ATA-150 supported
- PCIe and PCI extension through stacking kits



Packing List

| Standard | | | | |
|---|-----------------------------------|----------------------|---------------------|-----------------------|
| Quick installation guide, user's manual/utility CD, cable | | | | |
| Cable | | | | |
| Part Number | Description | SBC84820 VEA-1GL Qty | SBC84820 VEA-1G Qty | SBC84820 VEA-1GEL Qty |
| 59381560000E | Mini DIN Y-cable for PS/2 K/B+M/S | 1 | 1 | 1 |
| 59384500000E | COM + printer cable | 1 | 1 | 1 |
| 59384500100E | Audio cable w/ bracket | 1 | 1 | 1 |
| 59484500010E | 44-44-40 pin IDE cable | 1 | 1 | 1 |
| 59402010000E | ATX power cable 10P | 1 | 1 | 1 |
| 59384500200E | COM x 2 w/ bracket | | 1 | |

Ordering Information

| Standard | |
|------------------------------------|---|
| SBC84820VEA-1GL (P/N: E384820100) | 3.5" SBC with ULV 373 Intel® Celeron® M 1 GHz CPU, VGA/LVDS LCD, 10/100Mbps Ethernet, AC'97 audio and 2 COM ports |
| SBC84820VEA-1GEL (P/N: E384820107) | 3.5" SBC with ULV Intel® Celeron® M 1 GHz/ZC CPU, VGA/LVDS LCD, 10/100Mbps Ethernet, AC'97 audio and 2 COM ports |
| Optional/MOQ | |
| SBC84820VEA-1G (P/N: E384820102) | 3.5" SBC with ULV 373 Intel® Celeron® M 1 GHz CPU, VGA/LVDS LCD, 10/100Mbps Ethernet, AC'97 audio, 4 COM ports and Mini PCI type-III socket (with AX93200C) |
| SBC84820VEEA-1G (P/N: E384820101) | 3.5" SBC with ULV 373 Intel® Celeron® M 1 GHz CPU, VGA/LVDS LCD, 2 10/100Mbps Ethernet, AC'97 audio, 2 COM ports and MiniPCI type-III socket (with AX93201) |
| SBC84820VLEGA-1G (P/N: E384820105) | 3.5" SBC with ULV373 Intel® Celeron® M 1 GHz CPU, VGA/Dual LVDS 10/100Mbps & 10/100/1000Mbps Ethernet, AC'97 audio 2 COM port (with AX93208) |
| SBC84820VEA-1GEL (P/N: E384820117) | 3.5" SBC with ULV Intel® Celeron® M 1 GHz/ZC CPU, VGA/LVDS LCD, 10/100Mbps Ethernet, AC'97 audio, 2 COM ports and W.T. (-20° C ~ +70° C) |
| AX93222D | DVI-D & MiniPCI ECX adapter |
| AX93222V | CRT & MiniPCI ECX adapter |

* W.T.: Wide Temperature