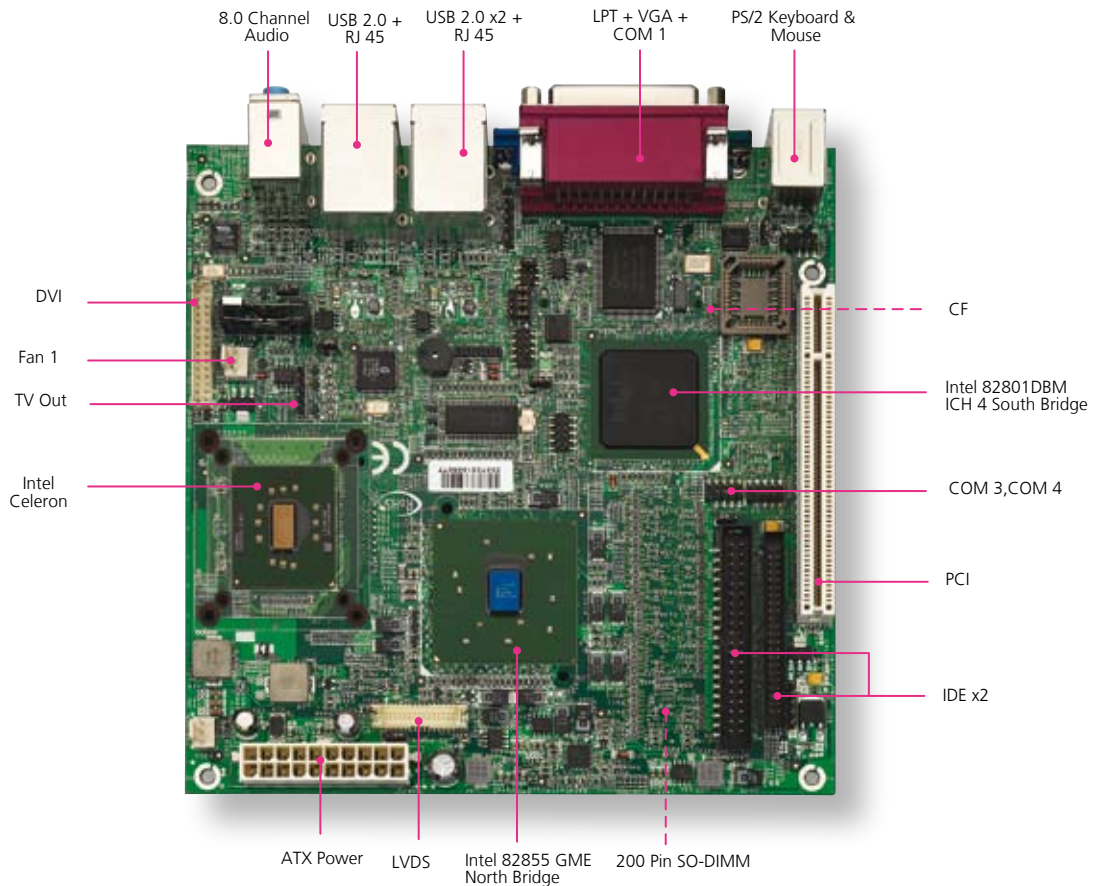


# EM-9643

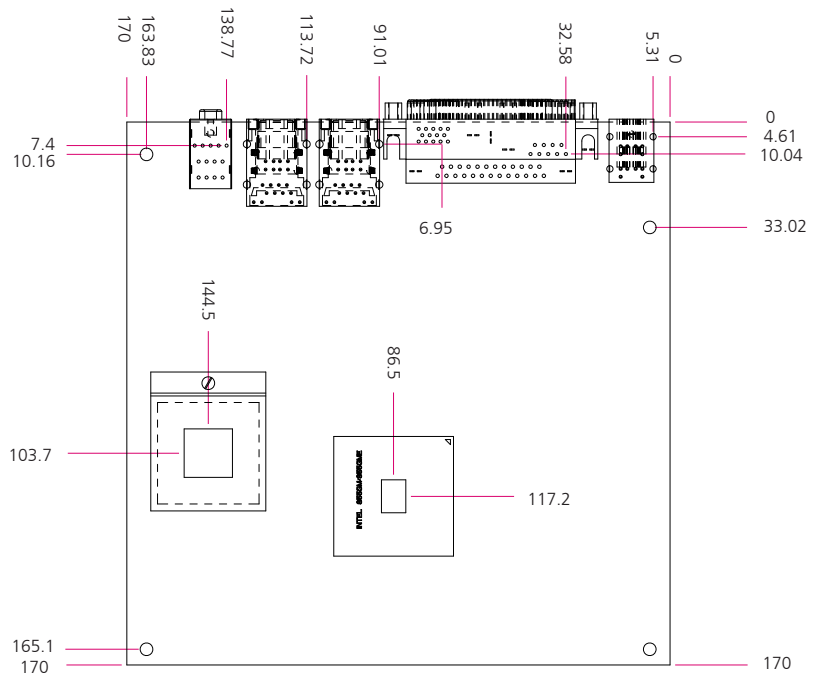
Mini-ITX Intel® ULV Celeron® M EBC with Dual Display/ Dual LAN/ 8.0 Audio/ PCOM/ USB and PCI slot

- VGA
- LVDS
- DVI
- TV-out
- AUDIO
- PCOM
- LAN
- DIO
- PCI



## FEATURES

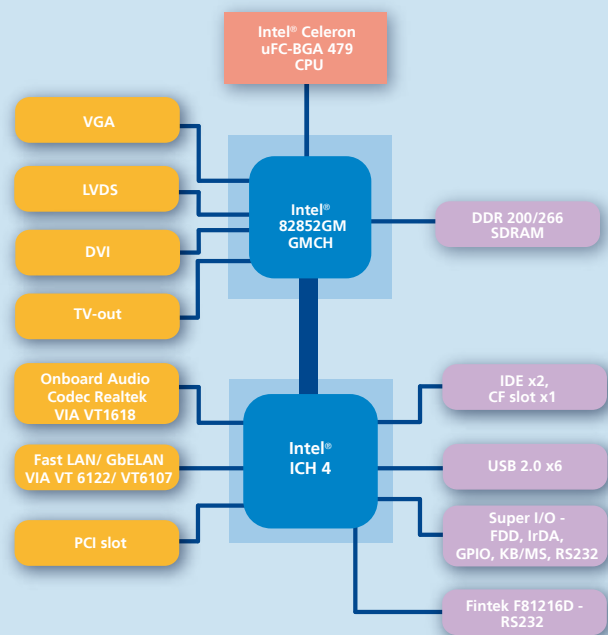
- Onboard ULV Intel Celeron M 600MHz/1GHz
- Intel 852GM + ICH4 chipset
- Dual-channel 36bit LVDS, VGA, DVI, TV-out
- 8.0 channel audio, onboard header
- Dual LAN, Power COM
- USB, IR, DIO, CF
- PCI expansion slots



| FEATURE                         | DESCRIPTION                      |  |
|---------------------------------|----------------------------------|--|
| <b>Platform</b>                 | Form Factor                      | Mini-ITX   |
|                                 | Processor                        | Onboard Intel Celeron M ULV Processor (600MHz or 1GHz)                   |
|                                 | Chipset                          | 82852GM (MCH) + ICH4   |
|                                 | BIOS                             | AMI Flash BIOS   |
|                                 | Cache Memory                     | 512KB (CPU integrated)   |
| <b>System Memory</b>            | Technology                       | DDR 200/266  |
|                                 | Max Capacity                     | 1GB  |
|                                 | Socket                           | 200-pin SO-DIMM x 1  |
| <b>OS Support</b>               | Windows XP, Win CE, Linux        |  |
| <b>Storage Interface</b>        | IDE Interface                    | 44-pin header x 1, 40-pin x 1  |
|                                 | CompactFlash                     | CF slot x 1  |
| <b>Networking</b>               | Speed                            | 10/100/1000 Mbps, 10/100Mbps   |
|                                 | I/O                              | RJ-45 x 2  |
|                                 | Controller                       | VIA VT 6122 and VIA VT 6107 controllers                                  |
| <b>Display</b>                  | Controller                       | Intel 82852GM integrated graphics  |
|                                 | Shared memory                    | Intel DVM up to 64MB   |
|                                 | Output                           | VGA x 1, Dual 36 bit LVDS, DVI and TV-out                                |
| <b>Audio</b>                    | Codec                            | VIA VT1618 with AC97 codec   |
|                                 | I/O                              | Line-in, line-out, mic   |
| <b>Hardware Monitoring</b>      | Serial Port                      | RS-232 x 3, RS-232/422/485 x 1, (all COM ports support +5/12V;by jumper) |
|                                 | Universal Serial Bus             | 6 USB 2.0 (2 via onboard header)   |
|                                 | Digital IO                       | TTL input x 4, TTL output x 4  |
|                                 | IR Interface                     | 1  |
|                                 | Keyboard                         | PS/2   |
|                                 | Mouse                            | PS/2   |
|                                 | Monitor                          | Voltage and temperature  |
|                                 | RTC                              | integrated in chipset  |
|                                 | Watchdog timer                   | 256 level software programmable  |
|                                 | <b>Cooling</b>                   | Heatsink   |
| <b>Expansion</b>                | PCI x 1                          |  |
| <b>Environmental Parameters</b> | Temperature, ambient operating   | 0~60°C (32~122°F)  |
|                                 | Humidity (RH), ambient operating | 0~90%, non-condensing  |
|                                 | Storage Temperature              | -20-70°C (-4-158°F)  |
| <b>Physical Dimensions</b>      | Dimensions                       | 6.7" x 6.7" (170mm x 170mm)  |
| <b>Power</b>                    | Input                            | +12V   |
|                                 | Form Factor                      | 20 pin ATX,power input connector   |
| <b>Compliance</b>               | CE, FCC,RoHS                     |  |

| ORDERING INFORMATION |  |
|----------------------|--|
| <b>EM-9643A</b>      | Intel ULV Celeron M 600MHz (512K cache) onboard with VGA/ Fast LAN   |
| <b>EM-9643B</b>      | Intel ULV Celeron M 1GHz (zero cache) onboard with VGA/ Fast LAN   |
| <b>EM-9643C</b>      | Intel ULV Celeron M 600MHz (512K cache) onboard with VGA/DVI/TV-Out/CF/2 x Dual LAN (1 x GbE and 1 x Fast LAN) |
| <b>EM-9643D</b>      | Intel ULV Celeron M 1GHz (zero cache) onboard with VGA/ DVI/TV-Out/CF/2 x Dual LAN (1 x GbE and 1 x Fast LAN)  |

## PLATFORM ARCHITECTURE



### About Lanner

Founded in 1986 and publicly listed (TAIEX 6245) since 2003, Lanner Electronics Inc. is an ISO 9001 certified designer and manufacturer of reliable, frontline security, storage and applied computing platforms and solutions. With headquarters in Taipei, Taiwan and branches in the U.S., India, and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

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