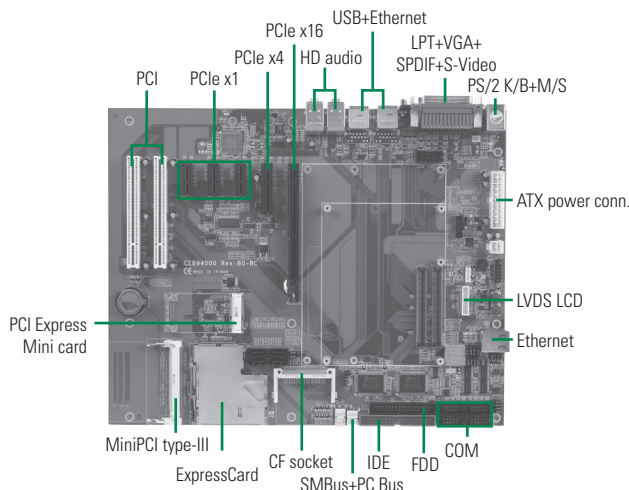


# CEB94000

## COM Express™ Type 2 Development Baseboard



### System

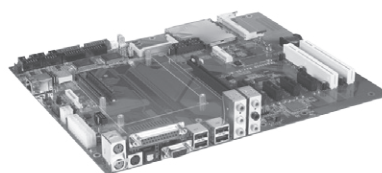
|                     |                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                 | COM Express™ type 2 basic or extended module                                                                                                                                                                  |
| System Memory       | On the module                                                                                                                                                                                                 |
| Chipset             | SoC integrated                                                                                                                                                                                                |
| BIOS                | On the module; optional socket on the baseboard                                                                                                                                                               |
| SSD                 | N/A                                                                                                                                                                                                           |
| Watchdog Timer      | 255 levels, 1~255 sec.                                                                                                                                                                                        |
| Expansion Interface | 1 x PCIe x16 slot for graphics and SDVO ADD2+ card<br>1 x PCIe x4 or 3 x PCIe x1 slot<br>2 x 32-bit/33MHz PCI slot<br>1 x ExpressCard slot<br>1 x PCI Express Mini Card socket<br>1 x MiniPCI type-III socket |
| Battery             | Lithium 3V/196 mAH                                                                                                                                                                                            |
| Size                | 305 x 244 mm                                                                                                                                                                                                  |
| Board Thickness     | 1.6 mm                                                                                                                                                                                                        |
| Temperature         | 0° ~ +60°C (32°F ~ 140°F), operation                                                                                                                                                                          |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing                                                                                                                                                                   |

### I/O

|                     |                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIO                 | 1 x IDE; PATA-100<br>1 x FDD<br>1 x PS/2 keyboard<br>1 x PS/2 mouse<br>1 x RS-232 (COM 2)<br>1 x RS-232 (COM 1)<br>1 x LPT; with SPP/EPP/ECP supported<br>1 x IrDA |
| SATA                | 4 x SATA                                                                                                                                                           |
| Hardware Monitoring | Supported by CPU module                                                                                                                                            |
| Ethernet            | 1 x RJ-45 for 10/100/1000Mbps                                                                                                                                      |
| Audio               | HD Audio with rear surround/side surround/sub woofer, Line-in/line-out/MIC-in and SPIF                                                                             |
| USB                 | 6 x USB 2.0                                                                                                                                                        |
| SMBus               | System Management Bus for advanced monitoring/control interface                                                                                                    |
| Port 80 Display     | Dual 7 segments Port 80 display for convenient debugging purpose through LPC interface                                                                             |
| Display             | 1 x S-Video (depending on CPU module)<br>1 x LVDS LCD interface<br>1 x CRT D-Sub connector                                                                         |

## Features

- Standard ATX form factor for development purpose
- 1 PCIe x16, 1 PCIe x4, 3 PCIe x1 and 2 PCI slots
- 1 ExpressCard, 1 PCI Express Mini Card and 1 MiniPCI



▲ Side view

### Packing List

| Standard                                                  |                                    |     |
|-----------------------------------------------------------|------------------------------------|-----|
| Quick installation guide, user's manual/utility CD, cable |                                    |     |
| Cable                                                     |                                    |     |
| Part Number                                               | Description                        | Qty |
| 59382601000E                                              | Ultra DMA66 IDE cable 40-pin 455mm | 1   |
| 593826A0000E                                              | SATA signal cable 500mm            | 2   |
| 59381400000E                                              | FDD cable, P=2.54, L=300mm         | 1   |
| 59380703000E                                              | COM port x 2 w/ bracket            | 1   |

### Ordering Information

| Standard                          |                                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------|
| CEB94000VEA                       | COM Express™ baseboard with ExpressCard, PCI Express Mini Card, MiniPCI, 1 x RJ-45 and multiple I/O features |
| (P/N: E394000100)                 |                                                                                                              |
| Compliant Modules and Accessories |                                                                                                              |
| CEM850VG                          | COM Express™ baseboard with socket P and 10/100/1000Mbps                                                     |
| CEM830VG                          | COM Express™ SoM with socket M and 10/100/1000Mbps                                                           |
| CEM820VG                          | COM Express™ SoM with socket 478 and 10/100/1000Mbps                                                         |
| CEM831VG                          | COM Express™ SoM with Intel® Atom™ processor N270 and 10/100/1000Mbps                                        |
| PK95300                           | LVDS-to-TTL 18-bit LCD converter for Hirose DF9-31P-1V                                                       |
| PK95301                           | LVDS-to-TTL 18-bit LCD converter for Hirose DF9-41P-1V                                                       |
| AX93221                           | LVDS-to-DVI converter                                                                                        |
| AX93218L                          | ADD2+ card for LVDS LCD                                                                                      |
| AX93218D                          | ADD2+ card for DVI-D                                                                                         |

\* All specifications and photos are subject to change without notice.

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Appendix