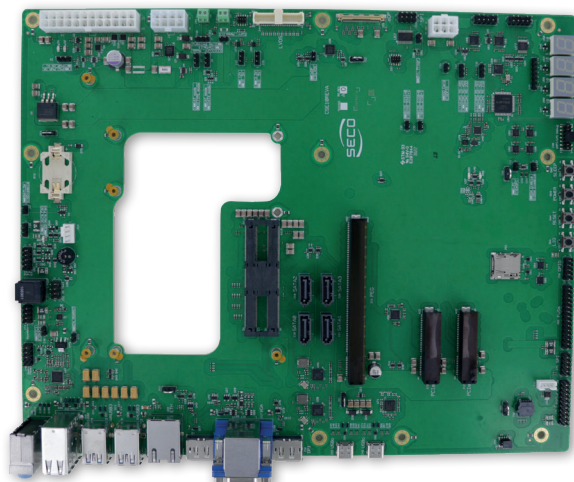




## CCOMe-E10

Carrier Board for COM-Express™ Rel. 3.1 Type 6 Modules for Development

### Connectivity and Flexibility to Accelerate Development



#### HIGHLIGHTS

- COM Express 3.1 Type 6 Carrier board
- ATX form factor
- Especially suited for development and debugging of COM express modules
- Separated power supply for COM Express module and carrier board



#### FEATURES

<p><b>Video Interfaces</b></p>	<p>3 x DP++ connectors or 1 x DP++ connector and 2 x USB4.0 Type-C with Alternate-Mode                      VGA connector                      LVDS 24-bit Single/Dual Channel                      eDP 4-lanes 40 poles VESA connector                      Backlight control + LCD selectable voltages dedicated connector                      LVDS External EDID flash socket</p>	<p><b>Other Interfaces</b></p>	<p>4 x GPI + 4 x GPO pin header (interface multiplexed with μSD slot)                      SPI Flash Socket                      Button / LEDs front panel header                      4-pin tachometric FAN connector                      I2C + SM Bus on feature Pin header                      I2C Flash Socket                      SM Bus Smart Battery Connector                      4 x 7-segment LCD displays for POST codes                      LPC/eSPI internal header</p>
<p><b>Mass Storage</b></p>	<p>4x S-ATA 7p M connectors                      μSD Card slot (interface multiplexed with GPIO header)</p>	<p><b>Power Supply</b></p>	<p>ATX 24 poles connector for carrier board working only                      Auxiliary 12V connector for carrier board working only                      12 VDC power in connector for COM Express module's working                      Cabled Coin-cell connector for RTC</p>
<p><b>Networking</b></p>	<p>1x GbEthernet RJ-45 connector</p>	<p><b>Operating Temperature*</b></p>	<p>0°C ÷ +60°C (Commercial version)</p>
<p><b>PCI-e</b></p>	<p>2x PCI-e x4 Slots Gen4                      1x PCI-e x16 Slot Gen4</p>	<p><b>Dimensions</b></p>	<p>305x244mm (ATXform factor, 12" x 9.6")</p>
<p><b>USB</b></p>	<p>2 x USB 4.0 on Type-C sockets with Alternate-Mode (factory alternative to 2 x DP++ and 2 x USB 2.0)                      4 x USB 3.2 Host ports on Type-A sockets                      4 x USB 2.0 Host ports on Quad Type-A sockets</p>	<p>*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.</p>	
<p><b>Audio</b></p>	<p>On-board HD Audio Codec (Realtek ALC888S)                      5.1 Audio Jack with S/PDIF Optical interface                      Mic In + Line Out internal pin header</p>		
<p><b>Serial Ports</b></p>	<p>2 x RS-232 / RS-422 / RS-485 ports on internal pin header (from carrier board's LPC Dual UART controller)                      2 x RS-232 ports on dedicated pin header (from module)</p>		

Information subject to change. Please visit [www.edge.seco.com](http://www.edge.seco.com) to find the latest version of this datasheet.

### BLOCK DIAGRAM

