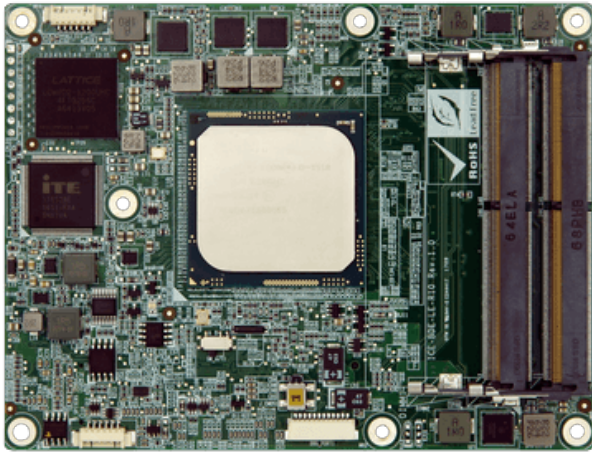


# ICE-BDE-T7

COM Express Basic Size Type 7 Module Support,  
Intel® Broadwell-DE Processor D-1500



## Features

- » COM Express basic size Type 7 module
- » Intel® Xeon® D and Pentium® D SoC (up to 16 cores)
- » Up to 32GB dual channel DDR4 at 1866/2133/2400MHz ECC (dependent on SoC SKU)
- » Two 10G Ethernet and NC-SI support
- » Up to 32 PCIe lanes (24 x Gen3, 8 x Gen2)
- » GbE, two SATA 6Gb/s, four USB 3.0/2.0

## Specifications

|                          |                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                   |                                                                                                                                                                       |
| CPU                      | Intel® Xeon® D processor D-1548 (12MB Cache, 2.00GHz)<br>Intel® Xeon® D processor D-1518 (6MB Cache, 2.20GHz)<br>Intel® Xeon® D processor D-1508 (3MB Cache, 2.20GHz) |
| Memory                   | Two 260-pin 1600/2133 MHz Dual-Channel DDR4 SDRAM supported Support ECC                                                                                               |
| Memory Max.              | 32GB                                                                                                                                                                  |
| Physical Characteristics |                                                                                                                                                                       |
| Dimensions (LxWxH) (mm)  | 125 X 95                                                                                                                                                              |
| Net Weight               | 300g                                                                                                                                                                  |
| Storage                  |                                                                                                                                                                       |
| Storage                  | 2 x SATA :6Gb/s signal to base board                                                                                                                                  |
| I/O Interface            |                                                                                                                                                                       |
| Ethernet                 | Description: Intel® I210<br>2 x 10G KR Interfaces<br>10G Sideband Signals<br>(10G_INT 10G_PHY_MDC/MDIO 10G_PHY_SEL 10G_PHY_RST<br>10G_LED_I2C 10G_SFP_I2C 10G_SDP)    |
| I/O Interface            | 2 x Internal RS-232 :2-wire to base board<br>4 x Internal USB 2.0 to base board<br>4 x Internal USB 3.2 Gen1x1 :to base board (with 4 X USB 2.0)                      |
| Expansion                | 1 x PCIe x16 :Gen 3 (Bifurcatable to 2 x8, 1 x8 & 2 x4, or 4 x4)<br>1 x PCIe x8 :Gen 3 (Bifurcatable to 1 x8 & 2 x4)<br>8 x PCIe x1 :Gen2 signal to base board        |
| Other Features           |                                                                                                                                                                       |
| TPM                      | on-Board SPI TPM 2.0                                                                                                                                                  |
| Power                    |                                                                                                                                                                       |
| Power Consumption        | 12V@2.15A, 5VSB@0.28A, 5V@0.03A                                                                                                                                       |
| Power Supply             | 12V: 12V±5%, 5VSB: 5V±5%, RTC Battery: 2.0-3.3V                                                                                                                       |
| Environment              |                                                                                                                                                                       |
| Operating Temperature    | -20°C ~ 60°C with air flow                                                                                                                                            |
| Humidity                 | 5% ~ 95%, non-condensing                                                                                                                                              |
| Certifications           |                                                                                                                                                                       |
| Safety & EMC             | CE/FCC compliant                                                                                                                                                      |

## Ordering Information

|                     |                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICE-BDE-T7-1508-R10 | COM Express Basic size Type 7 Module support, Intel® Broadwell-DE Dual-core Pentium® Processor D1508(25W), Two ECC DDR4 SO-DIMM , GbE, 10G KR, NCSI, SATAIII, USB 3.0, PCIe Gen3, RoHS |
| ICE-BDE-T7-1518-R10 | COM Express Basic size Type 7 Module support, Intel® Broadwell-DE Quad-Core Processor D-1518(35W), Two ECC DDR4 SO-DIMM , GbE, 10G KR, NCSI, SATAIII, USB 3.0, PCIe Gen3, RoHS         |
| ICE-BDE-T7-1548-R10 | COM Express Basic size Type 7 Module support, Intel® Broadwell-DE Eight-Core Processor D-1548(45W), Two ECC DDR4 SO-DIMM , GbE, 10G KR, NCSI, SATAIII, USB 3.0, PCIe Gen3, RoHS        |

## Packing List

|                                      |              |
|--------------------------------------|--------------|
| 1 x ICE-BDE-T7 single board computer | 1 x Heatsink |
| 1 x QIG                              |              |