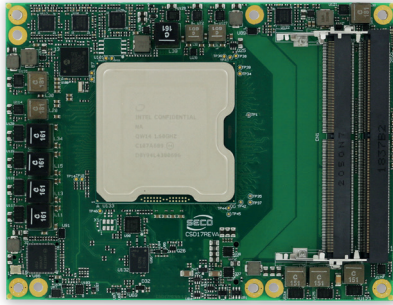




## JULIET formerly codenamed COMe-D17-BT7

COM Express® Rel.3.0 Basic Type 7 module, with the Intel® Xeon® D-1700 processors (formerly Ice Lake- D)

## COM Express® form factor and high performance Intel® SoCs for secure IoT applications



### HIGHLIGHTS

- CPU**  
Intel® Xeon® D-1700 processors
- CONNECTIVITY**  
4x Superspeed USB 5Gbps; 16x PCI-e Gen4 lanes + 16x PCI-e Gen3 lanes
- NETWORKING**  
4x 10GBASE-KR interfaces + 1x 1GbE port with NC-SI
- MEMORY**  
Up to four DDR4 SO-DIMM Slots supporting DDR4-2933 memory with ECC, up to 128GB

Available in Industrial Temperature Range



### MAIN FIELDS OF APPLICATION



Industrial  
Automation and  
Control



Telco



Server - High  
Performance  
Computing

### FEATURES

<b>Processor</b>	Intel Xeon® D-1700 family of processors Up to 10 cores, ~40 to 67W thermal design power (TDP)	<b>Embedded Controller Functionalities</b> Watchdog timer I2C and external SMBus Advanced FAN management 4x GPI (general purpose inputs), 4x GPO (general purpose outputs) Power state management Voltage and temperature monitoring POST code redirection User data storage Board statistics: up-time, boot counter, reset cause log  <b>BIOS</b> Dedicated embedded BIOS based on AMI Aptio V  <b>Power Supply</b> +12V <sub>DC</sub> ± 10% and +5V <sub>SB</sub> (optional)  <b>Operating System</b> Windows 10 IoT Enterprise Windows Server Wind River VxWorks Yocto Project Linux Linux LTS Kernel  <b>Operating Temperature*</b> 0°C ÷ +60°C (Commercial version) -40°÷+85°C (Industrial version)  <b>Dimensions</b> 120 x 95 mm (COM Express® Basic Form factor, Type 7 pinout)
<b>Memory</b>	Up to four DDR4 SODIMM slots on three DDR4 72-bit channels (up to 2x SODIMM slots on channel #0) Supporting DDR4-2400/2666/2933 memory (both ECC and non-ECC supported), up to 128GB Supports single-rank or dual-rank per SODIMM module	
<b>Mass Storage</b>	2x SATA 3 channels	
<b>Networking</b>	<ul style="list-style-type: none"> <li>1x Gigabit Ethernet LAN port with NC-SI (Network Controller Sideband Interface) functionality, managed by an Intel® I21x Gigabit Ethernet Controller.</li> <li>4x 10Gigabit Ethernet interfaces (10GBASE-KR), directly managed by the Xeon® D-1700 SoCs.</li> </ul>	
<b>USB</b>	4x Superspeed USB 5Gbps	
<b>PCI-e</b>	16x PCI-e Gen4 lanes (up to 4x root ports) 16x PCI-e Gen3 lanes (up to 8x root ports)	
<b>Serial Ports</b>	2x legacy UARTs, 16C550 compatible	
<b>Other Interfaces</b>	I2C, SPI, SM Bus, LPC/eSPI bus	
<b>Security</b>	Optional TPM 2.0 module on-board Intel® QuickAssist Technology 1.7 hardware acceleration for cryptography Intel® Boot Guard Intel® Total Memory Encryption – Multi-Tenant to protect physical memory and isolate VMs	

\*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

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## BLOCK DIAGRAM

