



- Ready to Plug
- HPEC and Microserver Ready
- Powered by Xeon® D-1500
- Hybrid RAM Architecture
- Compact Size with PCIe x16 Port

Features

COM Express Launchpad - A COM Express Type 6 Development Kit that provides a complete platform for development, validation and testing of the CPU-161-18

All Inclusive - Bundles one COM Express module, one microATX carrier board and a complete set of cables and accessories, including the operating system preinstalled on an SSD drive

Rugged and Performant - The CPU-161-18 supports wide operating temperature (- 40 to +85°C) and it is powered by server-class Intel Xeon D-1500 CPUs, up to twelve cores

Feature Rich - Provides a carrier board with plenty of interfaces, including one Gbit Ethernet, six PCIe x1 slots, one PEG slot, two Mini PCIe sockets, and four SATA 3.0 ports

Professional Services - Constitutes the first step for Eurotech Professional Services, that range from carrier board development to complete system design, certification and manufacturing

Description

The CPU-161-18 Development Kit allows a quick development and prototyping of embedded applications on a pre-validated platform which brings out a rich set of the module functionalities. The kit targets all aspects of an embedded application from hardware interfacing to development of on-board software.

The CPU-161-18 combines a high performance and truly embedded CPU with an innovative hybrid RAM architecture that offers the ruggedness of soldered memory and the expandability of SO-DIMMs. The standard configuration provides 8GB of memory soldered directly on the PCB and supports up to 24GB DDR4 RAM with ECC error correction through a SO-DIMM slot.

The CPU-161-18 can be configured with any member of the Xeon/Pentium D-1500 family; standard versions support extended temperature CPUs, closing the gap between traditional embedded applications and servers.

The CPU-161-18 is a headless unit that provides a fast upgrade path to existing projects and that allows the creation of new high-performance ones: a notable feature of this Compact size module is the availability of a x16 PCIe Gen 3 port in addition to the x8 one, a characteristic that is more commonly found only on larger modules.

CPU-161-18 Development Kit

COM Express Compact Type 6 - Rugged Intel Xeon D

Ordering code: CPU-161-18-XX-DK01

| XX | | - 05 | - 07 |
|-----------------------|-------------|--|------------------------------|
| PROCESSOR | CPU | Pentium D1519 1.50GHz, 4 Cores | Xeon D-1539 1.60GHz, 8 Cores |
| MEMORY | On-board | 8GB DDR4 ECC Memory Down | |
| | On-socket | 1x DDR4 ECC SODIMM up to 16GB | |
| STORAGE | SATA | 4x SATA 3.0 (up to 6Gb/s) | |
| I/O INTERFACES | Ethernet | 1x 10/100/1000Mbps - RJ45 | |
| | USB | 4x USB 3.0, 3x USB 2.0 - Type A | |
| | Serial | 2x UART (TX/RX) - Header | |
| | Video | Mini PCIe Graphic Card: 2x VGA (up to 1920x1080@75Hz Vertical Rate) | |
| | PCI Express | 1x PCIe x16 (Gen 3) Slot – 6x PCIe x1 (Gen 2) Slots – 2x Full/Half Size Mini PCIe Slots (PCIe Signal Only) | |
| OTHER | RTC | Yes (Lithium 3V 210mAh Battery) | |
| | Sensors | Temperature Sensor | |
| | LEDs | 1x SATA Activity, 1x Debug | |
| | Buttons | 1x Power-on, 1x Reset | |
| POWER | Input | 12V (DC-in, Screw-lock Jack) | |

For more specifications and certifications, please check the CPU-161-18 datasheet.

Pre-installed Software

| | | |
|-----------------|----|----------|
| SOFTWARE | OS | CentOS 7 |
|-----------------|----|----------|

Included Accessories

| | | |
|-----------------------|---------------|--|
| BASEBOARD | CARRIER BOARD | CAR-363-13 microATX COM Express Carrier Board |
| STORAGE | SSD | 1x 2.5" 64GB SATA SSD MLC |
| I/O INTERFACES | SATA | 3x SATA 3.0 Data Cables, 1x SATA Power Cable |
| | Video | 1x Mini PCIe Graphic Card, 1x Dual VGA Cable |
| POWER SUPPLY | DC-DC PSU | 1x 150W DC-DC ATX Power Supply Unit |
| | AC-DC PSU | 1x 100W 100/240VAC-in 12VDC-out (Jack Conn. with Screw) Level VI Power Supply Unit |
| | Cables | 3x Power Cables (US, JP, EU, UK) |
| OTHER | Heatsink | 1x Heatsink |