

CPU-161-18 COM Express Compact Type 6 - Rugged Intel Xeon D



- HPEC and Microserver Ready
- Intel® Xeon® D-1500
- Hybrid RAM Architecture
- Compact Size with PCIe x16
- Rugged and Fanless
- Customizable
- Professional Services

Features

HPEC and Microserver Ready - Combines computational power with a rugged design to enable High Performance applications even in-the-field

Powerful - Supports the latest generation of embedded Intel Pentium and Xeon D-1500 CPUs to deliver a server-class module Hybrid RAM Architecture - Innovates by offering the reliability of soldered-down RAM and the expandability of SO-DIMMs Compact Size with PCIe x16 Port - Complies with COM Express Type 6 Rev 2.1, including support for a PCIe x16 port Rugged and Fanless - Allows robust, fanless designs thanks to 100% soldered-down components and with a range of energy efficient CPUs

Customizable - Comes with optional personalization and full customization services, ranging from factory options to deep HW/SW configuration changes

Professional Services - Provides the foundation for Eurotech Professional Services that span from carrier board development to complete system design, certification and manufacturing

Description

The CPU-161-18 is a COM Express module that 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, targeting use cases where extreme ruggedness is required, and those that need a large memory.

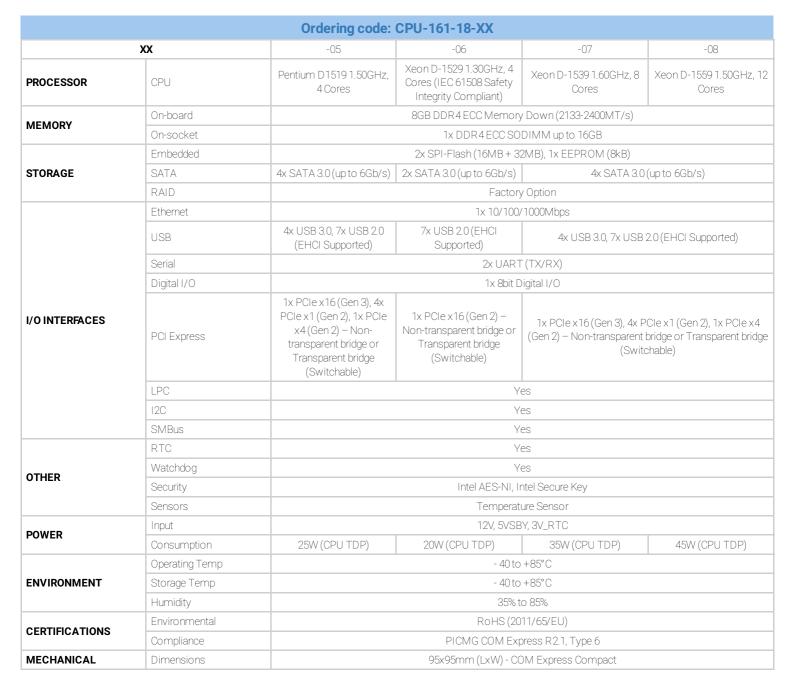
The CPU-161-18 can be configured with any member of the Xeon/Pentium D-1500 family; standard versions support extended temperature CPUs, such as the Pentium D-1519 and the Xeon D-1559, closing the gap between traditional embedded applications and servers.

Compatible with existing Type 6 carrier boards, 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; other features include: Gigabit Ethernet, four SATA 3.0 ports, four USB 3.0 and seven USB 2.0 interfaces.

Supported operating systems include Yocto Linux and CentOS; moreover, the CPU-161-18 supports <u>Everyware Software Framework</u> (<u>ESF</u>), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for <u>IoT gateways</u>.

Professional Services are available for the CPU-161-18, starting from BIOS personalization and including carrier board design, system development and production. Deep module customization, such as feature changes are also available.

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Supported Software		
SOFTWARE	OS	Eurotech Everyware Linux, CentOS 7 (Professional Services: Windows 10 IoT Enterprise, Fedora, Other Linux and RTOS)
	IoT Framework	Everyware Software Framework (Java/OSGi)

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