



C5™ EMBEDDED COMPUTER

Backed by proven Intel® architecture, Contec's C5 Embedded Computer is leading the way for a new class of connected technology. Its modular design and flexibility provide a future upgrade path for embedded solutions that necessitate I/O and regulatory stability yet demand the latest in CPU performance. Building on the native I/O capabilities of the Intel Compute Card, the C5 adds M.2 and mini PCIe expansion to deliver even more robust I/O options. With its low power requirements and broad range of supported wireless technologies, the C5 is well suited to meet the diverse needs of the growing IoT device market.

Remote Management and Field Service

Remote management of the system is supported by the Intel® Core™ vPro™ processor native to the Intel Compute Card. Advanced status indicators enable non-technical staff to quickly determine if the cause of a system failure is due to an externally connected device or one of the major replacement SKUs of the system. Field repairs can be as easy as swapping out the Intel Compute Card, for computer function failures, or the C5 I/O expansion carrier, for I/O interface or power related failures.

Fully Supported Wi-Fi and Bluetooth® Functionality

The C5 supports Intel Compute Card native Wi-Fi and Bluetooth® and provides options for alternative wireless technologies like ZigBee, LoRaWAN, and LTE-CAT. A SIM card can be connected via an expansion slot. Three external access locations are available for external antenna support.

Wide Range Power Input

The C5's internal DC-DC power conversion design facilitates operation with a wide DC input range of 9V–24V. It can be powered by several external DC sources including battery, AC-DC adapter, or existing DC source. PoE (802.3at) as a power source is supported by the internal Ethernet port and an optional internal PoE Powered Device module.

Configurable Expansion Slots

Three internal expansion slots can be customized to support a wide range of application hardware interfaces. Industrial I/O connections can be configured for PROFINET, EtherNet/IP, EtherCAT, multiple Ethernet, RS-485, or CAN Bus connections. The I/O connection panel can be customized to support different connector requirements for add-in expansion cards. Additional storage can be added to support mSATA SSD devices or M.2 SSDs.

Extremely Low Power Consumption

The combination of the Intel Compute Card with the low-power design of the C5 I/O and high efficiency internal DC-DC power supply results in a power consumption rating of only 12Watts (CPU at tDP, Wi-Fi at max power, keyboard/mouse, no expansion cards



FEATURES

Modular Intel Compute Card computing engine for future upgradeability. Low cost media distribution via external microSD socket.

Long-life platform for solution stability in large field deployments

Low power consumption for battery and remote IoT edge computing

Highly expandable design with multiple mini PCIe and M.2 expansion card support

Revolutionary service mode enabling lower cost servicing

2 SSD devices (up to 1 TB each): M.2 or mSATA

Passive cooling for greater reliability

IO carrier security device with embedded x.509 certificate. IoT ready (Azure & AWS)

Supports a chain of trust including physical access that allows application to authenticate any hardware and software needed to operate

SPECIFICATIONS

Intel Compute Card

Celeron, 4GB RAM, 64 GB eMMC, Wi-Fi/BT

Pentium, 4GB RAM, 64 GB eMMC, Wi-Fi/BT

Core m3, 4GB RAM, 128GB SSD, Wi-Fi/BT

Core i5 vPro, 8GB RAM, 128GB SSD, Wi-Fi/BT

6 USB 3.0 Ports

2 1000/100/10 LAN ports

HDMI Video Port (4K Support)

VGA video port

9-24V DC Power Input

3 mini PCIe or M.2 expansion slots

2 external low profile PCI slot openings

1 slot wireless enabled

Weight: 3.2 lbs.

ADDITIONAL INFORMATION

Request additional information online at www.c5compute.com or call us toll free at (888) 285-0172.