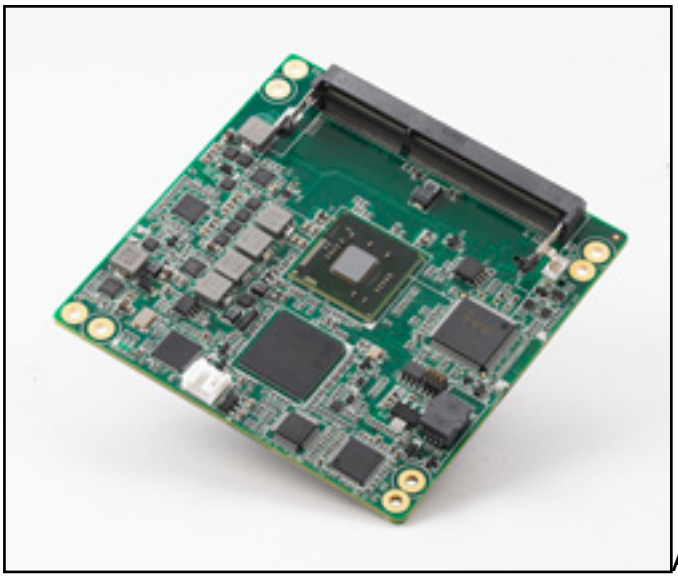
CPU Module Touts COM.0 R2 Type 2 Pin-out Design, Low Power Consumption



Advantech launched SOM-6765, the latest COM-Express Compact CPU module. This module is powered by the low power Intel Atom N2600 and D2700 processors based on COM.0 R2.0 type 2 pin-out. Type 2 pin-out and legacy I/O support make for easy migration, and type 2 connectors are resistant to shock and vibration while offering high bandwidth, and high-speed data transmission. SOM-6765 consumes 6 W from a compact COM Express R2.0 type 2 module, specifically targeting customers looking for balanced performance and lower power consuming applications. The compact design (95 mm x 95 mm) is suitable for digital signage, vehicle devices, marine equipment, and mobile medical equipment. Intel Atom dual-core N2600 and D2700 processors arebased on 32-nm technology, which includes hardware HD decode and support for faster DDR3 1066 memory. SOM-6765 offers dual display output and various graphic interfaces such as LVDS, VGA, and even Blu-ray via HDMI. An improved DDI function gives more flexibility to media design without interfering with the original COM.0 R2.0 type 2 specification.

For expansion, SOM-6765 supports 2 PCIe x1, 4 x PCI masters and an optional 1 x PCIe x4 slot for performance demanding applications. There is a built-in Giga-bit LAN on board for network-intensive applications. SOM-6765 also supports 2 x SATAII, 8 x USB2.0, LPC, SMBus, I2C Bus, EIDE, and 8-bit GPIO. SOM-6765’s wide range temperature capability (-40° C to 85° C) makes it super reliable so it can endure extreme environment requirements and applications.

Compliant with Advantech iManager 2.0 (Intelligent Management Device)
Advantech has evolved over time from a pure hardware vendor to helping customers solve problems during product development. Advantech iManager epitomizes this new approach by offering an embedded firmware that greatly enhances system reliability and provides users with an easy and stable (OS-Independent) way to manage onboard devices. iManager provides a valuable suite

of programmable APIs such as multi-level watchdog, hardware monitor, smart fan, brightness control and more; all with user-friendly interfaces. Since this is a built-in solution on chip, iManager ensures functions operate even if the operating system fails, helping enhance system stability and compatibility, and reducing effort on carrier board design and platform migration.

Advantech
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