

Compact DIN Rail Mountable Processor Design Note #99

Intel i7 COM Express Carrier System



Designed and built in the United States, Orchid's iconic computer architecture is a timeless classic. Configurable, powerful DIN-Rail computers perfect for industrial computing applications.



"We always select Orchid for cost effective non-recurring engineering that works the first time."

- Business Development Manager

Compact DIN Rail Mountable Processor

Compact DIN rail mountable processors are used in a wide variety of applications from space exploration to industrial controls. Conveniently mounted on a standard DIN rail, these rack mountable processors may be assembled into a wide variety of configurations. Careful power management together with the use of interchangeable Type 6 COM Express modules permits the user to tune the design for high performance or low power. Advances in COTS computer modules provides a wide array of Intel processor architectures from which to choose.

Mini-PCI Express Peripheral Expansion

Developed as an expandable architecture, the DIN rail computing system takes advantage of COTS Mini-PCI Express peripheral modules to effect I/O expansion. General purpose Mini-PCI Express modules provide serial communications, wireless services, network communications, data storage and a host of other custom-designed possibilities. This highly configurable peripheral subsystem, coupled to an equally configurable host processor make this DIN rail architecture uniquely suitable for a wide variety of applications.

Solid State mSATA Hard Drives

Dedicated mini-PCI Express form factor mSATA drives provide high availability disk drive services for use by multiple processor cores. Intel multi-core i7 processor architecture is thereby provided with high speed stored data access.

Orchid Technologies: DIN Rail Computers

The development of custom electronic products for our OEM clients is Orchid's entire business. The design of custom DIN rail computers with rapid design cycles, demanding technical requirements, and unforgiving schedules sets us apart. Call Orchid Technologies today!



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Custom Engineering From Concept to Production

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