

Diamond Systems Corporation

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www.diamondsystems.com**Magellan Embedded-Ready Subsystem**

Magellan is a highly integrated Embedded-Ready Subsystem (ERS) that incorporates an I/O application layer, computer-on-module layer, and thermal layer into a compact, COM Express form factor board-level subsystem.

Magellan comes in a range of models that vary according to the choice of COM Express CPU module and SDRAM capacity (socketed or soldered-on) to meet the price/performance needs of your application. It can be used either as a highly integrated embedded component or as a platform for application development and reference designs.

Magellan's baseboard includes connectors and interfaces for USB, serial, gigabit Ethernet, and SATA mass storage devices. It supports the connection of a wide variety of CRT and LVDS-interfaced flat panel displays. Power is supplied by means of a robust six-pin terminal block.

**FEATURES**

- › Choice of 1.1GHz Intel Atom Z510 or 1.6GHz Intel Core 2 Duo LV CPUs
- › Up to 4GB of DDR2 SDRAM
- › Dual Gigabit Ethernet LANs
- › SATA support
- › Quad USB 2.0 ports
- › Two RS-232 and two RS-232/422/485 ports
- › CRT and LVDS video output
- › Onboard USB flash disk socket
- › Onboard 7-30V DC/DC power supply
- › PCI-104 or SUMIT stackable expansion and FeaturePak socket
- › Operating temperature of -40°C to +85°C (-40°F to +185°F)