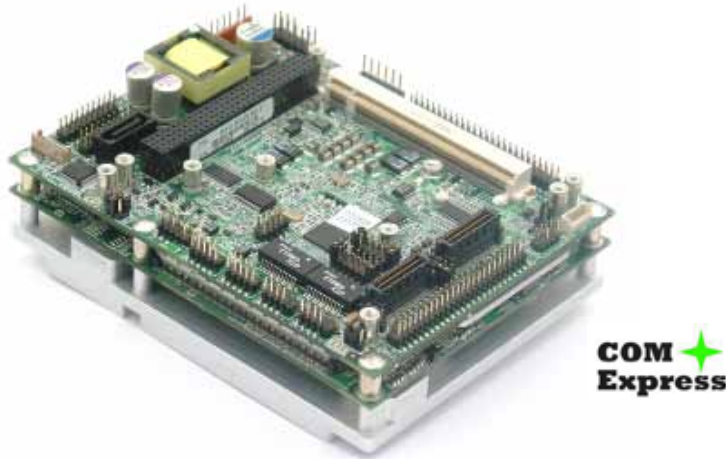


COM Express™ form-factor Single Board Computer with SUMIT™, PC-104™ and FeaturePak™ expansion and configurable COM CPU



Highly Integrated Single Board Computer (SBC)

Magellan integrates an I/O application layer, COM layer, and thermal layer into a compact, COM Express form-factor board-level subsystem.

Price/Performance Advantage

Magellan offers a configurable COM Express CPU so you to match a Magellan SBC to the price/performance needs of your application.

Access to Latest Technology

Magellan's COM-based design provides you with access to the latest CPU and I/O technology, while protecting your investment from CPU obsolescence via plug compatible COM Express CPU modules.

Fast Time-to-Market

Magellan is a fully operational, off-the-shelf subsystem that is ready for immediate deployment in your application. No custom baseboard development is necessary.

Development Kit

Complete Development Kits are available with all the components you need to get started on your embedded design project. Each kit contains a Magellan SBC, cable kit, and Linux software CD.

Software Support

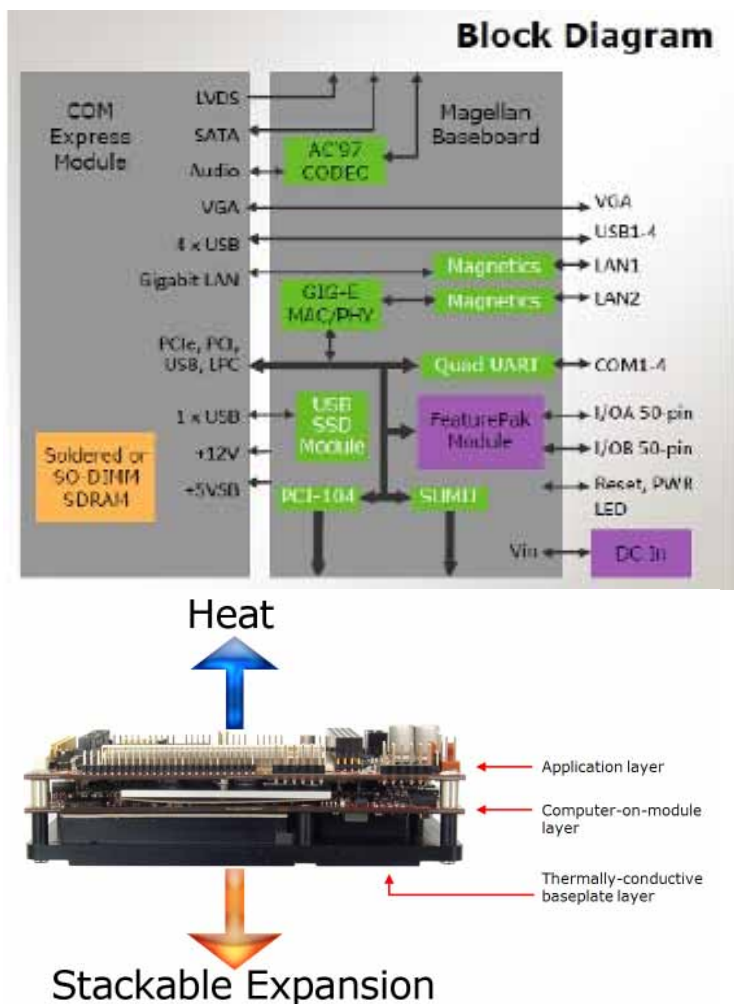
Magellan runs Linux, Windows® XP™, Windows Embedded Standard™ and Windows Embedded CE™. All necessary drivers are provided with the product.

Key Features

- ◆ Interchangeable COM Express CPU module provides price/performance flexibility and protects against product obsolescence
- ◆ Choice of 1.1GHz Intel® Atom™ Z510 or 1.6GHz Intel Core 2 Duo™ LV CPUs
- ◆ Supports up to 4GB of DDR2 SDRAM (CPU dependent)
- ◆ I/O connectors for a wide range of interfaces, including:
 - Dual gigabit Ethernet LANs
 - One SATA port
 - Four USB 2.0 ports
 - Two RS-232 serial ports
 - CRT and LVDS video output
- ◆ On-board USB flashdisk socket
- ◆ Supports connection of a wide variety of displays, including CRTs, LVDS-interfaced flat panels, and televisions
- ◆ Triple-play system expansion flexibility:
 - PC/104 stack
 - SUMIT stack
 - FeaturePak zero height expansion socket
- ◆ Built-in +7-36 DC/DC power supply or +12VDC input only (LC models). Power is supplied by means of a six-pin terminal block
- ◆ Heatspreader is mounted on bottom side, promoting optimal thermal arrangement and increasing space for I/O functions and connectors
- ◆ Extremely rugged operating temperature of -40°C to +85°C



SPECIFICATIONS		ORDERING INFORMATION	
Processor	Choice of 1.1GHz Intel Atom Z510 or 1.6GHz Intel Core 2 Duo LV CPU	MAG-965-4G	Magellan SBC, 1.6GHz Core 2 Duo LV CPU, 4 GB SO-DIMM SDRAM, heatspreader, 7-36V DC power supply
Front side bus	Atom Z510: 400MHz Core 2 Duo LV: 800MHz	MAG-965-1G	Magellan SBC, 1.6GHz Core 2 Duo LV CPU, 1GB SO-DIMM SDRAM, heatspreader, 7-36V DC power supply
Memory	Atom Z510: 1GB soldered-on DDR2 SDRAM Core 2 Duo LV: 1 GB or 4GB SO-DIMM DDR2	MAG-965LC-4G	Magellan SBC, 1.6GHz Core 2 Duo LV CPU, 4GB SO-DIMM SDRAM, heatspreader, +12V input only
Chipset	Atom Z510: US15WPT Core 2 Duo LV: 965GME with ICH8M	MAG-965LC-1G	Magellan SBC, 1.6GHz Core 2 Duo LV CPU, 1GB SO-DIMM SDRAM, heatspreader, +12V input only
BIOS	AMI PnP Flash BIOS	MAG-Z510-1G	Magellan SBC, 1.1GHz Atom Z510 CPU, 1GB soldered-on SDRAM, heatspreader, 7-36V DC power supply
Mass storage	1 SATA port, supports 1 device USB flashdisk socket	MAG-Z510LC-1G	Magellan SBC, 1.1GHz Atom Z510 CPU, 1GB soldered-on SDRAM, heatspreader, +12V input only
Serial ports	2 RS-232 ports 2 RS-232/422/485 ports	DK-MAG-965LC-1G	Magellan 965LC Development Kit, includes: MAG-965LC-1G with heatsink & fan, cable kit, Linux image
USB ports	4 USB 2.0	DK-MAG-Z510-1G	Magellan Z510 Development Kit, includes: MAG-Z510-1G, cable kit, Linux image
Networking	1 gigabit Ethernet from COM CPU 1 gigabit Ethernet from Intel 82574 controller on baseboard		
Display	VGA CRT, LVDS LCD		
Audio	AC'97 audio CODEC; mic in, line in/out		
Watchdog timer	Non-maskable interrupt or reset modes		
Other I/O	SMBus; LPC interface		
Expansion buses	PC/104 or SUMIT stackable expansion FeaturePak socket		
On-board power supply	+7-36V DC/DC power supply or +12V input only (LC models)		
Power input	+12VDC or +7-36V DC/DC		
Power consumption	MAG-Z510-1G: 10.3W idle, 14.2W loaded MAG-965 models: 14.2W idle, 23.5W loaded		
Operating temperature	MAG-965-xG models: -40°C to +80°C (-40°F to +176°F) MAG-Z510 models: -40°C to +85°C (-40°F to +185°F)		
Operating humidity	0-90% non-condensing		
Dimensions (L x W x H)	MAG-Z510-1G: 4.9 x 3.7 x 1.77 in. (125 x 95 x 57 mm) MAG-965 models: 4.9 x 3.7 x 2.24 in. (125 x 95 x 57 mm)		
Weight	MAG-Z510-1G: 11.7oz (332g) MAG-965 models: 19.2oz (544g)		
RoHS	Compliant		



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