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RadiSys

DATA SHEET

Endura SF810

MICRO NLX
INTEL® 810 PCI/ISA MOTHERBOARD



FEATURE SUMMARY

- Intel® 810 Chipset
- PGA370 Celeron™ Processors
- PGA370 Pentium® III Processors
- Up to 512MB SDRAM
- System Management
- Intel 10/100 Ethernet
- PanelLink™ Flat Panel Interface
- DFP and DVI Support
- AC97 Audio
- Fan Control
- 8 GPIO Lines
- PCI and ISA Buses

Endura motherboards are the world's first Intel architecture motherboards designed specifically to meet the demands of the OEM embedded marketplace. Based on chipsets manufactured by the Embedded Intel Architecture Division, Endura motherboards have an extended lifetime unlike commercial motherboards, which have typical lifetimes of 6 to 12 months. Combined with high quality design and manufacture, engineering change control, engineering support and product life cycle management, Endura motherboards provide the ideal solution for an embedded system where long lifetime and low cost of ownership are paramount. Endura motherboards also offer continued support for legacy features such as ISA and standard serial interfaces, which remain important for embedded applications.

The SF810 is a small form factor micro NLX motherboard that is well suited to embedded applications as it combines the benefits of a plug-in motherboard for ease of maintenance and upgrade along with the ability to design low profile systems. Expansion cards are mounted horizontally in a riser card giving system designers the flexibility to choose the required slot count and chassis dimensions to suit their needs. With a rich integrated feature set, the SF810 micro NLX can be used as a platform in many applications ranging from telecom, datacom, medical imaging, and transaction terminals to industrial automation.

Intel® Applied Computing Platform Provider

ORDERING INFORMATION

Call for pricing and availability.

Refer to the order codes below.

DESCRIPTION

300MHz Celeron–810 video, ISA, no LAN, no flat panel
MODEL • SF810-V-C300

300MHz Celeron–810 video, ISA, 82559ER LAN, no flat panel
MODEL • SF810-L-C300

300MHz Celeron–810 video, ISA, 82559ER LAN, flat panel
MODEL • SF810-FPL-C300

433MHz Celeron–810 video, ISA, no LAN, no flat panel
MODEL • SF810-V-C433

433MHz Celeron–810 video, ISA, 82559ER LAN, no flat panel
MODEL • SF810-L-C433

433MHz Celeron–810 video, ISA, 82559ER LAN, flat panel
MODEL • SF810-FPL-C433

600MHz Pentium III–810 video, ISA, no LAN, no flat panel
MODEL • SF810-V-P600

600MHz Pentium III–810 video, ISA, 82559ER LAN, no flat panel
MODEL • SF810-L-P600

600MHz Pentium III–810 video, ISA, 82559ER LAN, flat panel
MODEL • SF810-FPL-P600

I/O shield–SF810-V
MODEL • SF810-V-ioshield

I/O shield–SF810-L
MODEL • SF810-L-ioshield

I/O shield–SF810-FPL
MODEL • SF810-FPL-ioshield

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SPECIFICATIONS

FEATURE	FUNCTION	DESCRIPTION
Processor	Socket	370-pin PGA ZIF for Intel Celeron™ and Pentium® III processors
	FSB	66MHz and 100MHz operation
Chipset		Intel 810 chipset with ICH1
		National Semiconductor PCI/ISA bridge
Cache		Provided by processors with integrated L2 cache
Memory	Type	Two 168-pin DIMM sockets for PC100 SDRAM
	Capacity	Maximum of 512MB
	ECC	Not supported
Video	Controller	Integrated in 810 chipset
	Display Cache	None - not supported by the Intel 810 (embedded chipset)
	Frame Buffer	Stored in main memory (holds 2D and 3D data)
	Flat Panel	Silicon Image SII164 PanelLink controller
	VESA DFP	Rear I/O connector
	DDWG DVI	Supported via cable adapter
Audio	Controller	AC97 CODEC using Analog Devices AD1881A
		ATAPI line input connector for CD-ROM (optional 2mm connector)
		NLX riser based audio supported via supplemental connector
Network	Controller	Intel 82559ER 10/100 Ethernet
		IEEE 802.3 10Base-T and 100Base-TX compatible
		RJ45 connector with LEDs for line activity, link integrity and line speed
IDE	Devices	Two Ultra ATA/66 interfaces via riser
	Types	Supports ATAPI, LS120 and ZIP drives
Floppy	Types	Supports standard 3.5" and 3-mode floppy drive via riser
Mechanical	Dimensions	10 x 8.25 inches, NLX 1.8 compliant
	PCB	4 layers
	I/O Shield	For use with a 9 inch wide aperture
I/O	Parallel Port	25-pin D-type supporting bi-directional, EPP and ECP modes
	Serial Ports	COM1 on 9-pin D-type
		COM2 via 10-way header
	IrDA	Supported in place of COM2
	USB	Dual stacked USB 1.1, option to route one channel to NLX riser
	Keyboard & Mouse	Swappable PS/2 connectors
	GPIO	8 GPIO lines via header
Expansion Slots	PCI	Up to 5 PCI 2.2 bus master slots on riser (riser validation recommended)
	ISA	Up to 5 ISA slots via riser (more can be added with buffering on the riser)
	AMR	Supported via riser
	3.3V	3.3V aux. provided via riser
System Management		Monitoring of voltage, temperature and fans
		Watchdog timer
		Anti-tamper security
		CPU fan speed control and system fan connected via riser on/off control
Power Management		PCI PME, ACPI 1.0, APM 1.2
Power Supply		Support for hard- and soft- switched PSU
	Typical	35W - SF810-V-C433, 32MB SDRAM
Battery		Lithium coin cell (5 years operating life typical)
		Optional super cap for 1 hour backup
BIOS	Type	PhoenixBIOS 4.0 Release 6.1
	Special Features	Customizable defaults, customer logo
		Silent boot, automatic configuration
Operating Systems		Windows 95, Windows 98, Windows 2000, Windows NT.
		Qualification of real time and other operating systems subject to demand.
Safety Compliance		Evaluated in accordance with UL1950, EN60950 and IEC60950
EMC Compliance		Evaluated in accordance with EN55022, EN55024 and FCC Part 15 Class B
Environment	Operating Temp.	5°C to 55°C
	Storage Temp.	-40 to 85 °C
	Relative Humidity	5% to 95% non-condensing

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