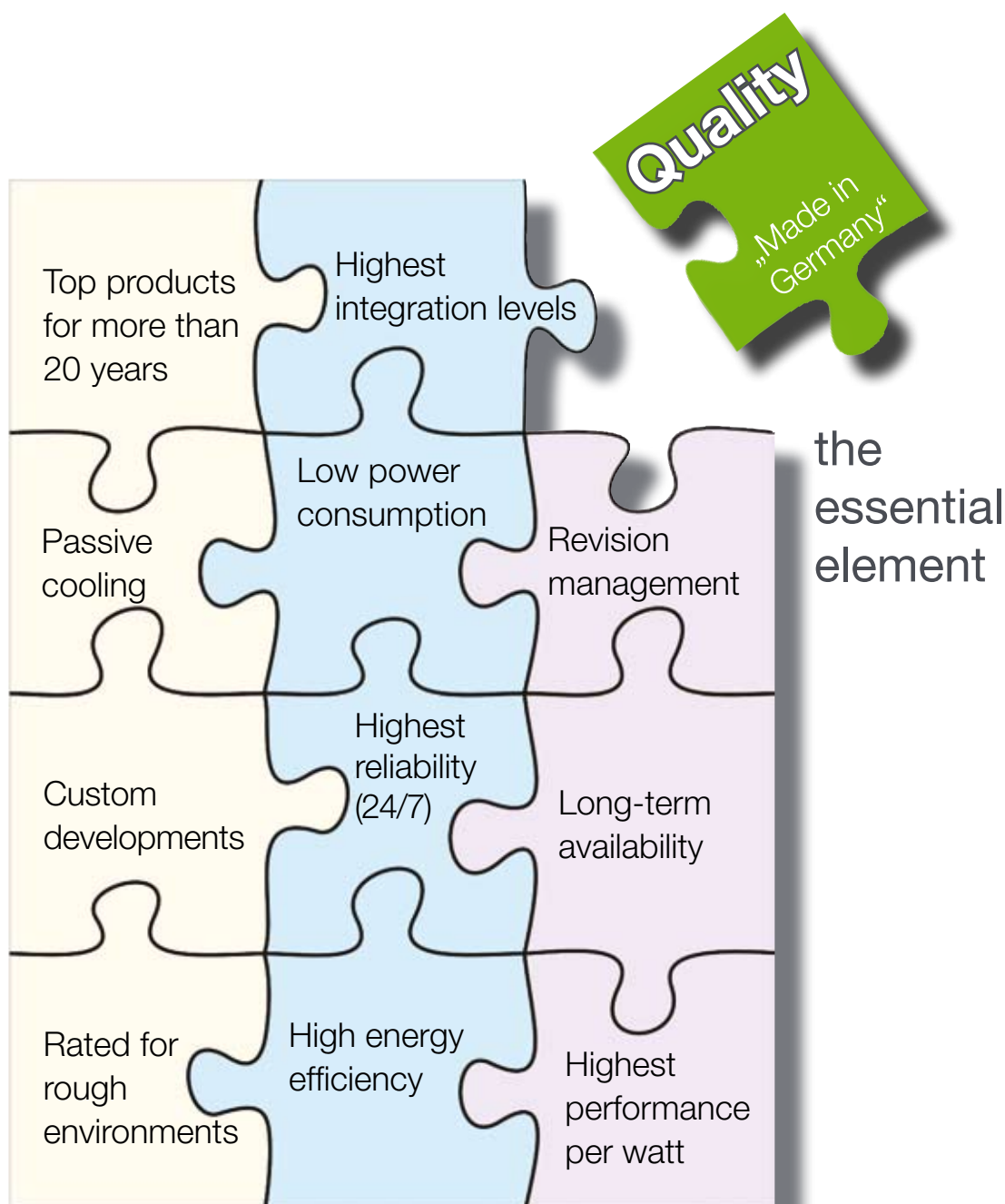


Embedded PC Technology



Product Overview



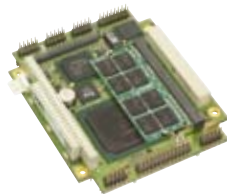
Core Express®



CoreExpress®-ECO



Cool RoadRunner-945GSE



Cool RoadRunner-LX800



Cool SpaceRunner-LX800

PC/104,
PC/104-Plus

New



Cool LiteRunner-ECO

New



Cool LiteRunner-86DX



Cool LiteRunner-LX800

PCI-104,
PCI/104-Express

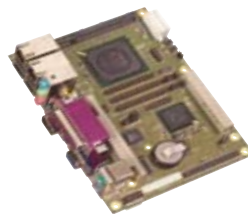


Cool XpressRunner-GS45

New



Hurricane-QM57



Hurricane-LX800

Epic



Thunderbird-GM45



Thunderbird-E3100

Mini-ITX

Form Factors And Technical Data

Model	Format	CPU, Clock	RAM (max)	Ethernet	USB	Serial	Sound	VGA	LVDS	TFT	HDD	Flash	Miscellaneous	Ext. temperature range
CoreExpress®-ECO	Core Express®	Atom™ Z5xx 1.1 ... 1.6 GHz	2 GB		8 x 2.0		✓		✓		PATA		LEMT, 2 x PCI Express, SDVO	✓
Cool SpaceRunner-LX800	PC/104-Plus	Geode™ LX800 500 MHz	256 MB soldered	1 x Fast	4 x 2.0	2		✓	✓		PATA	2 GB SSD	LEMT	✓
Cool RoadRunner-945GSE	PC/104-Plus	Atom™ N270 1.6 GHz	2 GB soldered	1 x Gigabit	8 x 2.0	2	✓	✓	✓		2 x SATA	2 GB SSD	LEMT	✓
Cool RoadRunner-LX800	PC/104-Plus	Geode™ LX800 500 MHz	1 GB	1 x Fast	4 x 2.0	2	✓	✓	✓	✓	PATA	CF socket		✓
New Cool LiteRunner-ECO	PC/104	Atom™ Z5xx 1.1 ... 1.6 GHz	2 GB soldered	2 x Gigabit	6 x 2.0	2	✓	✓	✓		2 x SATA	Micro SD	Mini PCI, LEMT	✓
New Cool LiteRunner-86DX	PC/104	Vortex-86DX 0.6 ... 1.0 GHz	512 MB	1 x Fast	5+1 2.0	2					Ultra ATA	Micro SD	FPGA, GPS, LEMT	✓
Cool LiteRunner-LX800	PC/104	Geode™ LX800 500 MHz	256 MB soldered	2 x Fast	4 x 2.0	3	✓	✓	✓	✓	PATA	CF socket	Mini PCI, LEMT	✓
Cool XpressRunner-GS45	PCI/104-Express	Core™ 2 Duo	1 GB	1 x Gigabit	8 x 2.0	2	✓	✓	✓		2 x SATA	8 MB	LEMT	✓
New Hurricane-QM57	EPIC	Core™ i7, 1.6 ... 2.53 GHz	8 GB	2 x Gigabit	10 x 2.0 host		✓	✓	✓		4 x SATA		2 x DisplayPort, PCI Express, LEMT, Raid Support	✓
Hurricane-LX800	EPIC	Geode™ LX800 500 MHz	1 GB	1 x Fast 2-way switch	4 x 2.0	2	✓	✓	✓	✓	PATA	uDoC	Mini PCI, Analog IO	✓
Thunderbird-E3100	Mini-ITX	Core™ 2 Duo 1.89 GHz	8 GB ECC	2 x Gigabit	6 x 2.0	2		✓			6 x SATA		ASF, MiniCard, LEMT	
Thunderbird-GM45	Mini-ITX	Core™ 2 Duo 2.53 GHz	4 GB	1 x Gigabit	11 x 2.0			via DVH	✓		4 x SATA	uDoC	Intel®AMT, Adaptive-IO™, LEMT	

About LiPPERT Embedded Computers

LiPPERT Embedded Computers develops and markets embedded PC modules and systems. We supply system integrators and OEM's in markets as diverse as automotive, automation, medical devices, military, as well as aerospace. The company is headquartered in Mannheim, Germany. A global net of selected distributors serves customers throughout the world. A sales office in Atlanta, Georgia, assures short reaction time and competent support for customers in the USA and Canada.

Products For Particular Requirements

Embedded PC's from LiPPERT are distinguished by the latest technologies and high integration levels. Our standard products in CoreExpress®, Mini-ITX, EPIC, and PC/104 formats are equipped with chipsets from the leading manufacturers. Their performance spectrum ranges from a few hundred megahertz up to high-end computers with more than two gigahertz. Most of these modules are available for the extended temperature range of -40°C...+85°C. Rated for rough environments, they are particularly suitable for mobile and outdoor applications. Their long life cycles assure customers long-term availability and supply predictability. When replacing older technologies, we pay special attention to backward-compatibility, thus minimizing our customers cost for product updates.

Intel, Intel Inside and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. CoreExpress®, the CoreExpress®-logo, Adaptive-IO™ and the Adaptive-IO™-logo are trademarks or registered trademarks of LiPPERT Embedded Computers. Other trademarks and registered trademarks are the property of their respective owners.

Custom Development

Customers having own, special requirements can get their custom-built solutions. Because of the application-specific design and qualification, these devices are the optimum fit for the application. The short cycle time gives the highest time-to-market factor.

Production



All our products are locally assembled in Germany by experienced, ISO 9001-certified contractors. Conformance to the RoHS directive goes without saying.

Quality Management



We are a certified ISO 9001:2008 company and attach great importance to the quality of our products. All processes are documented and can be reproduced if necessary. Our product revision management assures the safe and stable use for customers with approval-critical applications like electronic gaming machines or medical devices.

Service And Support



Our highly qualified support staff assists customers world-wide with all product related questions. We guarantee a reaction time of two days maximum for all requests. VDC, a market research company, awarded the highest prize for customer satisfaction to us, the „Platinum Vendor 2006 Award“.



LiPPERT Embedded Computers GmbH
Hans-Thoma-Str. 11, D-68163 Mannheim
Phone +49 621 43214-0
Fax +49 621 43214-30
sales@lippertembedded.com
www.lippertembedded.com

LiPPERT Embedded Computers, Inc.
5555 Glenridge Connector, Suite 200
Atlanta, GA 30342
Phone (404) 459 2870
Fax (404) 459 2871
ussales@lippertembedded.com

LIPPERT
THE EMBEDDED PC COMPANY