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QORE: LEC-3100

Intel Atom N270 1U Rackmount Fanless Serial Server with 10 isolated serial ports, 5 RJ-45 network ports, 4 USB and 8 lines of DIDO

The LEC-3100 is designed for high surge ESD automation environments, such as substations, generation SCADA applications and building automation. Featuring a fanless rackmount design, the LEC-3100 easily integrates into factory IA control rooms, substation racks and Telco racks.

With ten isolated serial communication ports, five GbE LAN, 4 USB and DIDO, the LEC-3100 has a rich IO array. The rear IO connection and LEDs on front panel for all ports and modes highly simplify monitoring for operation and maintenance.

Furthermore, a PCI-104 expansion slot offers future expansion and customization possibilities.

Features

- 10 Isolated Serial Ports
- Intel® Atom N270 Processor
- 1U Rackmount Form Factor
- Front facing LEDs for easy maintenance
- Five 10/100/1000 Mbps
- CompactFlash Type I/II and SATA HDD support
- Cable Free Interior
- 8 Lines of programable DIDO

10xCOM

5xLAN

USB

DIDO

Fanless

Cable-free

SATA

LEC-3100

FEATURE	DESCRIPTION	LEC-3100
Platform	Form Factor	1U Rackmount
	Processor	Intel Atom N270
	Chipset	Intel 945GSE + ICH7M
	BIOS	AMIBIOS with 8Mbit FWH
	Max. FSB	533MHz
Memory	Memory IC On Board	No
	Memory Socket	1 x SODIMM (up to 2GB per slot)
	Max Memory	2GB (1 x 2GB Module)
Storage	Compact Flash	1 x CF Socket Type I/II
	SATA	1 x 2.5" SATA HDD/DOM support
	IDE	1 x 22pin IDE header
Networking	Controller (Interface)	Intel 82574L x 4, Intel 82562GZ x1
Video	Controller	Onboard 945GSE
Audio	Codec	ALC888 HD Codec
I/O	COM Ports	2 x DB9 8 x Phoenix Contact All ports are isolated and can use RS-232/422/485 control signals Corresponding LEDs on front panel
	USB 2.0	4 (3 x External, 1 x Internal)
	DVI	1 (1600 x 1200)
	LAN	5 x RJ45 GbE, LEDs on front panel
	Audio	Line in, Line out, Mic In
	DIO	4 in, 4 out, LEDs on front panel
	Expansion	PCI/104
Hardware Monitor	Controller	Winbond W83627 UHG integrated hardware monitor
	Watchdog timer	Yes (1~255 level)
OS Supported		Embedded Windows XP/Linux kernel 2.4.16 or above/WindowsXP 32 bit
Environmental Parameters	Operating Temperature (With Industrial Components: CF, Memory, SSD, HDD)	-20°~50°C / 14°~131°F
	Operating Temperature (With Commercial Components)	-5°C~45°C / 23°~113°F
	Extended Operating Temperature Tested	N/A
Dimensions	W x H x D	271 x 44.5 x 440 mm
	Weight	3Kg
Power	DC Power Input	9V ~ 36V DC in
	AC Power Input	110/240V AC in, 10% Tolerence
Compliance		CE, FCC, RoHS

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