

Machine Vision Solutions

Smart Cameras Embedded Vision Systems Frame Grabbers





support@logicbus.com



San Diego, Ca. USA. +1 (619)-616-7350 Mexico City. +52 (55)-8995-3820 Guadalajara, Mexico. +52 (33)-3854-5975

sales@logicbus.com

Vision Guidance Robotics

- With powerful quad core computing and FPGA image pre-processing, the NEON series can process multiple complex inspection tasks simultaneously
- The quad core CPU increases computing power and FPGA coprocessors and GPU deliver advanced image processing, both beyond the capabilities of conventional smart cameras.
- Rich software support and API compatibility enable easy migration from original x86 platforms, eliminating software and development language burdens across the platform, reducing time to market.

NEON-1021 Intel® Atom™ E3845 1.91GHz Processor-based Value Series Smart Camera

High Speed Pharmaceutical Inspection

- 4MP 60fps global shutter sensor and the Intel[®] Atom[™] quad core 1.9 GHz processor, with minimal footprint and rugged IP67-rated construction.
- Easy to deploy and development by streamlined integration and maximization of all leading machine vision utilities, including MVTec Merlic, HALCON, Stemmer CVB, Congex Vision Pro, Euresys Open eVision, Matrox MIL, Teledyne Dalsa Sherlock and GenTL
- With IP67-rated housing and M12 connectors, the NEON series resists harsh environments, withstanding damage from moisture and contaminants.

NEON-1040 Intel® Atom™ Quad-Core Processor E3845 1.9 GHz-based smart camera









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Sensors

Industrial Computers

Data Test & M Acquisition Equ

Test & Measurement Equipment

Smartphone Manufacturing Facility and Electronic Component Foundry

- Multi-slot IMB-M43 motherboard with five PCIe-GIE74 frame grabbers can accommodate connection of up to 20 cameras to a single host computer, saved the equipment and licensing fees cost for multi-camera required application
- Operating temperatures from 0°C to +70°C supports integration with fanless computer providing multi-card non-drop frame capture under extreme environmental conditions
- Comprehensive PoE Protection Secures Assets



4-CH PCI Express® GigE Vision PoE+ Frame Grabbers

Food and Beverage Inspection

- On-the-Fly trigger suitable for sync cameras and strobes
- Encoder easily integrates with conveyor belt
- One side I/O and compact size for conserved space
- Compact size with wide-range temperature support
- Short protection DO avoids device damage



Defect Inspection



Barcode Inspection



OCR/OCV

EOS-1300

4CH GigE Vision Compact Vision System with 6th Generation Intel® Core™ i7/i5/i3 Processors



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New Generation x86 Quad-Core Smart Camera

Overview

ADLINK's new generation x86 NEON-1040/1020 features 4MP 60fps global shutter sensor and the Intel [®] Atom[™] quad core 1.9 GHz processor, featuring minimal footprint and rugged IP67-rated construction. The quad core CPU increases computing power and FPGA coprocesso rs and GPU deliver advanced image processing, both beyond the capabilities of conventional smart cameras. Rich software support and API co mpatibility enable easy migration from original x86 platforms, eliminating software and development language burdens across the platform, reducing time to market.

> Breaking the boundaries of smart camera and embedded vision systems



High performance increases speed and capture complexity

High end quad core processor

Intel[®] Atom[™] processor E3845 at 1.91GHz improves dramatically on the performance of existing smart cameras. The high end processor provides up to 6 times the computing power of conventional smart cameras.

Improved detection sensitivity

The 4 MP 60 fps 1-inch global shutter sensor improves on rolling shutter sensors with improved raw image clarity, for high speed inspection precision.



Coordination among CPU, GPU and FPGA co-processor

The NEON-1040/1020's FPGA accelerates image pre-processing and reduces CPU loading, making it ideal for complex acquisitions like those in LUT (look up table), ROI (region of interest), and shading correction. Thanks for FPGA, the CPU resource can focus on algorithm and make inspection tasking more efficiency.



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Open architecture and easy development dramatically reduce time to market

In a real application environment, different development languages and software tools are required in machine vision, motion controller, smart camera and line scan camera stations . A platform allowing development in a single language, with easy deployment from existing platforms, conserving manpower costs and reducing time to market.

Programming in the x86 architecture

NEON-1040/1020 is based on x86 architecture, with all development environments familiar to users, for motion/HMI/IO solutions, seamless migration from the original x86 platform.



Rich third party software support

The NEON-1040/1020 provides flexible software support for STEMMER Common Vision Blox, MVTec HALCON, COGNEX VisionPro, Teledyne Dalsa Sherlock, Adaptive Vision Studio, Euresys Open eVision and more. As well, GeniCam and GenTL compatibility simplify communication with devices and allow third party software to control cameras and a cquire image data.

64-bit computing

As image analyses software have to deal with great bulk of data, most mainstream software products in this segment support 64-bit instructions. Therefore, it is better for implementers to choose a vision system that supports 64-bit computing environment.

Maximum integration reduces TCO

Built-in PWM lighting control

The NEON-1040/1020's built-in PWM lighting control module eliminates the need for additional lighting controller equipment, reducing TCO.

Compact footprint

Small footprint enables easy integration into existing lines, s aving space and simplifying configuration

Versatile I/O for external device connection

NEON-1040/1020 provides 4x digital inputs, 4x digital outputs, USB 2.0 port, and RS-232 ports, supporting connection to a monitor, USB mouse and keyboard, enabling program and application development directly in smart camera.

Line scan camera

User Application

VISIONPR

Onen

ADLINK NEON-1040

Vision

Adaptive Vision

Sherlock"

GEN(i)CAM

HALCON

Area scan camera



ADLINK Embedded Vision Systems



Introduction

Embedded vision systems, also referred to as compact vision sys tems, offer an alternative to Smart cameras and computer-based systems. The ADLINK EOS series is a complete embedded system that offers image acquisition, processing, archiving, and display capabilities. It is equipped with a multi-core CPU, ideal for applications requiring high computing power and multi-camera imaging, such as 3D vision and robotics guidance.

Featuring rich I/O connectivity with factory-floor networks, including RS-232/422/485, USB, and isolated digital I/O, as well as onboard storage, ADLINK's embedded vision system is ready to deploy.

A system monitoring feature, feeding back temperature and voltag e data, cor reliability of the ADLINK EOS series in mission critical applications.

e data, combines with a watchdog timer to maximize robustness and

Highlights

Compact and Rugged Design

EOS series is a compact-size 230 (W) x 206 (D) x 82 (H) mm (9 x 8.3 x 3.2 in.) embedded vision system. Designed for missio n critical applications, the EOS series underwent harsh vibration and shock testing during its design to ensure durability. While in operation, the EOS series can tolerate vibrations of up to 5 G.

Multi-Camera Support

Simultaneous vision inspection is commonly required on a production line as a cost-effective solution. The ADLINK EOS series provides multi-camera support through up to 4 channels, making it ideal for use in industrial automation, improving overall produ ct quality and increasing efficiency.

Precision Time Protocol (IEEE1588)

Precise time information is especially important for industrial automation. With the Precision Time Protocol (PTP) described in IEEE1588, it is possible to synchronize several cameras with an accuracy of less than 1 μ s via Ethernet networks. IEEE1588 PTP technology allows a single Ethernet cable to deliver both synchronization and image data.





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PoE Support

PoE (Power over Ethernet) technology provides power through a single Ethernet cable up to 100 m. This PoE solution simplifies system installation and lowers maintenance costs. The ADLINK EOS series also provides auto-detection to ensure compatibility wit h both PoE and conventional non-PoE devices. The camera power is automatically on when the PoE connection is established. With the smart PoE function in EOS-1200, users can program power status (PoE on, or power off) easily, delivering significant energy efficiency, especially when cameras are idle.



Easy Maintaintance

The ADLINK EOS series enables significant ease of system installation. The upper cover is easily opened by removal of a single screw. Hot-swappable filter design also reduces MTTR (Mean-Time-to-Repair) and increases system reliability.







Open the top cover with easy thumbscrew, no tools needed!

Hot swappable filter for easy replacement

Ready to Deploy

A complete vision system includes software, digital I/O, storage, communication, and peripheral devices. The EOS-1200 features rich I/O capability, including four serial ports, two USB 3.0 ports, 32 PNP/NPN isolation digital I/Os, dual storage (two SATA interface, and one CFAST slot), an internal USB port, and 1 kbit programmable EEPROM, which make EOS-1200 ideal to integrate, deploy, and manage copy protection or authentication of software licenses f or system development, and further accelerate time to market.



Dual Data Storage

Most vision applications require two forms of data storage: one during operation and the other to archive gathered data or hous e a backup operating system. This system architecture of independen t dual storage devices strongly enhances reliability and flexibili tv of the ADLINK EOS series.



CFast socket

Up to two HDD/SDD installation

Applications



Food/Beverage Packing Inspection





Pharma/Medical **Device Inspection**





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Smart Camera Selection Guide

Model Name			NEON-1020	NEON-1040			
Smart Camera			<u>A</u> LE				
Processing	Processor						
	Display		VGA output, max. 2048 x 1152 at 60 Hz				
Processing	RAM		4 GB DDR3L				
amenory	Storage		16 to 32 GB solid state drive				
	Advanced	Processing	ROI, LUT, Shading Correction				
	Image Ser	nsor	CMOSIS CMV2000	CMOSIS CMV4000			
	Resolution	ו	2048 x 1088	2048 x 2048			
Sensor	Sensor Size		2/3"	1″			
	Format		Monochrome				
	Pixel Size (µm)		5	5			
	Frame Rate (fps)		120	60			
	Shutter		Global				
	Trigger Mode		External trigger, software trigger, free run				
I/O Interface	Trigger Input		1x Opto-isolated trigger input				
	Digital Ou	tput	4x sink type output, max sink 100mA sink voltage max 30VDC				
	Digital Inp	out	4x TTL level input				
		Drive Method	Constant current 500mA				
	PWM Lighting Control	Applicable Light Units	24 VDC illuminators				
		Dimming Resolution	1000:1				
	Ethernet		1 x GbE				
	Serial Communication		1 x RS-232 (TX and RX only)				
	USB		1 x USB 2.0				
	Dimensions		68.5mm W x 110mm D x 52.7 mm H / 2.70" W x 4.33" D x 2.08" H (68.5mm x 110mm x 42.7mm reduced size option)				
Mechanical	Lens mount		C mount				
	Connectors		1 x M12 8-pin (Female), 1xM12 17-pin (Male), 1x M12 12-pin (Male)				
Software Support	Operation System		Windows 7, Windows Embedded Standard 7				
	Power Co	nsumption	24 VDC +/-10%, 13W (Typical)				
Environmental & Electricalions	Operating Temperature		Standard: 0°C to 50°C (32°F to 122°F) Extended temperature option: 0° to 60 °C (32° F to 140° F) (w/ industrial SSD)	0° to 50 °C (32° F to 122° F)			
	Vibration		Operating, 5 Grms, 5-500 Hz, 3 axes				
Certification			IP67, CE, FCC Class A				



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Data Test & Measurement Acquisition Equipment

Embedded Vision Systems Selection Guide

Model Name	EOS-4000	EOS-1200
Embedded Vision Systems	~	
CPU	Intel [®] Core™ i7-3610QE, i5-3610ME	Intel [°] Core [™] i5-2510 3.1 GHz / Intel [°] Core [™] i7-2710 3.0 GHz / Intel [°] Core [™] i7-3610 3.3 GHz
Chipset	Intel ° QM67 Express	Intel ° QM67 Express chipsets
System Memory	DDR3 SODIM x2, up to 16 GB	Up to 8 GB DDR3
Video	VGA+DVI-D output by DVI-I connector, up to QXGA (2048 x 1536) resolution	VGA+DVI-D output by DVI-I connector, up to QXGA (2048 x 1536) resolution
Audio	None	AC97, mic in/speaker out
Ethernet	2x GbE port	2x GbE port
USB	4x external USB 2.0, 2x external USB 3.0, 1 x internal USB 2.0	Four USB 2.0 ports, two USB 3.0 ports
COM Ports Two software-programmable RS-232/422/485 (COM1 & COM2), two RS-232 (COM3 & COM4) Two software-		Two software-programmable RS-232/422/485 (COM1 & COM2), two RS-232 (COM3 & COM4)
Keyboard/Mouse	PS/2 type mini-DIN connectors	PS/2 type mini-DIN connectors
Camera Interface	2-CH Camera Link base configuration, up to 85 MHz	4-CH Gigabit power over Ethernet IEEE 802.3af compliant, total max. power output 32 W
	32 DI, 32 DO	16-CH isolated digital input and output
	COS interrupt for all digital input	2x COS interrupt
Digital I/O	2.5 kV isolation protection	None
	Configurable Digital Filter (0.25 µs-131 ms)	None
Trigger I/O	2 trigger input, 1 encoder input	None
Weight	3 kg (6.6 lbs)	3 kg (6.6 lbs)
Mounting	Wall and DIN rail mounting (optional)	Wall and DIN rail mounting (optional)
Power Supply	DC: 10 to 30 VDC, ATX mode	DC: 10 to 30 VDC, ATX mode
Operating Temp.	0°C to 55°C (32°F to 122°F)	0°C to +55°C (32°F to 131°F)
Humidity	0% to 90%	0% to 90%
Dimensions	230 (W) x 206 (D) x 82 (H) mm (9 x 8.3 x 3.2 in.)	230 (W) x 206 (D) x 82 (H) mm (9" x 8.3" x 3.2")
Power Consumption	110 W (with 4 GB DDRAM and 4 GB CFAST)	110 W (with 4 GB DDRAM and 4 GB CFAST)
Storage	One CFAST slot, two 2.5" SATA interfaces	One CFAST slot, two 2.5" SATA interfaces
Random Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes (w/CFAST or SSD)	Operating, 5 Grms, 5-500 Hz, 3 axes (w/CFAST)
Safety Compliance	CE/FCC, RoHS	CE/FCC, RoHS





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Fanless Embedded Computer Selection Guide

Model Name	Expandable Fanless Embedded Computers						
	MIXC-6400 Series			MIXC-6300/6310/6320 Series			
Model Name	MXC-6401D	MXC-6402D	MXC-6403D	MXC-6301D/ 6311D/ 6321D	MXC-6302D/ 6312D/ 6322D	MXC-6303D / 6313D/ 6323D	MXC-6305D/ 6315D/ 6325D
System							
Processor	Intel [°] Core™ i7-6820EQ	Intel [°] Core™ i5-6440EQ	Intel [°] Core™ i3-6100E	Intel [°] Core™ i7-3610QE	Intel [°] Core™ i5-3610ME	Intel [°] Core™ i3-3120ME	Intel [°] Celeron [°] 1020E
Chipset		QM170			QN	177	
# of Cores	4	4	2	4	2	2	2
Base Freq.	2.8 GHz	2.7 GHz	2.7 GHz	2.3 GHz	2.7 GHz	2.4 GHz	2.2 GHz
Max Turbo Freq.	3.5 GHz	3.4 GHz	-	3.3 GHz	3.3 GHz	-	-
Memory	4GB DDR4	2133 MHz (up to	o 32 GB)	4 (GB DDR3 1333 M	IHz (up to 16 GB)	
Video	2 DisplayPort 1 DVI			2 DisplayPort 1 DVI			
I/O Interface				1	T Intern		
Expansion Slots	1 PCI + 2 PCIe x8 or 1 PCI + 1 PCIe x16 (auto switched)			1 PCI + 2 PCIe x8 or 1 PCI + 1 PCIe x16 (MXC-6300 Series) 1 PCI + 1 PCIe x16 (MXC-6310 Series)			
Tthouset	2x mPCle + 2x USIM		3 PCI + 1 PCIe x16 (MXC-6320 Series)				
Ethemet			19LIVI)			023/9/1210) DC 333/433/405	
Serial Ports	COM1 & COM2: 2 RS-232/422/485 COM3 & COM4: 2 RS-232			COM1 & COM2: 2 RS-232			
USB	6 USB 3.0 + 1 internal USB 2.0 wafer			4 USB 3.0 + 2 USB 2.0 + 1 internal USB 2.0			
DIO	Isola	ted 16x DI + 16x	DO	Isolated 16x DI + 16x DO			
PS/2		2 (KB/MS)		2 (KB/MS)			
Audio	ALC 262, Line-out/ Mic-in				ALC 269Q, Lin	ie-out/ Mic-in	
Manageability Watchdog Timer	1		1				
SEMA		1					
SLIVIA		V				-	
Storage	2x re	emovable drive b	avs			2	
2.5" SATA	2x internal			(change to drive bays by request)			
CompactFlash	1 type II CFast			2 type II CFast (1 external + 1 internal)			
Operating	Standard: 0 to 50°C			Standard: 0 to 50°C Extended option:			
Temperature*	(w/Ind. SSD or CFast)			(w/Ind. SSD or CFast)			
Vibration	With	n CFast/SSD: 5 Gr ith HDD: 0 5 Grm	ms	With CFast/SSD: 5 Grms			
FSD	Contact	\pm /-4 KV and Air -	∟/-8 KV	Contact + / 4 KV and Air + / 9 KV			
Shock	Contact Mi		C				
EMC	With CFast/SSD: 50 G			CE and ECC Class A			
ENIC							
General	UL by CB						
Power Supply	9-32 VDC			9-32 VDC			
Mechanical	1			I			
Dimensions	170 (W) x 225 (D) x 200 (H) mm (6.69" x 8.86" x 7.87"		MXC-6300/6320 Series: 172.5 (W) x 225 (D) x 213 (H) mm (6.9" x 9"x 8.52") MXC-6310 Series:154 (W) x 225 (D) x 213 (H) mm (6.16" x 9" x 8.52")				
Operation System	Win10/ Win7/ E	mbedded Standa	ard 7, Linux**	Win10/Win7/	Embedded Stan	idard 7/WES 200	9, Linux **
* Heat Dissipation from inserted PCI/PC	Cle cards may affect	thermal performanc	e.				

** Linux Distribution by request





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Test & Measurement Equipment

Frame Grabber Selection Guide

	PCIe-HDV72 P	Cle-HDV62A/PXIe-HDV62A	PCIe-GIE64+	PCIe-GIE62+
ADLINK Frame Grabber	NEW			
Standard	HDMI	HDMI	Power over Ethernet	Power over Ethernet
Configuration	4K, UHD	Full HD	Gigabit Ethernet	Gigabit Ethernet
Connector	HDMI	DVI-I	RJ45 x 4	RJ45 x 2
Resolution	4096 x 2160P, 3840 x 2160P	1920 x 1080p	depends on camera specification	depends on camera specification
Interface	PCIe x4 (3.0)	PCIe x4	PCle x4	PCle x4
Max. Video Input	1	1	4	2
Max. Frame Rate	up to 60	60	depends on camera specification	depends on camera specification
Audio Input			-	-
TTLI/O			-	\checkmark
Area Scan Camera			\checkmark	\checkmark
Line Scan Camera	-	-		\checkmark
Interlaced Scan				\checkmark
Progressive Scan	\checkmark	√		\checkmark
Camera Tap	-	-	-	-
Pixel Depth	8, 10, 12-bit	8-bit, 10-bit	depends on camera specification	depends on camera specification
Max. Clock Frequency	-	-	-	-
On-board memory	2 GB	512 MB	-	-

	PCIe-2602	PCIe-CPL64	PCIe-FIW64/PCIe-FIW62	PCIe-RTV24/PCI-RTV24
ADLINK Frame Grabber				
Standard	SDI	PoCL (Power over Camera Link)	IEEE 1394b	Color: PAL/NTSC Monochrome: CCIR/EIA (RS-170)
Configuration	SDI	base, medium	-	-
Connector Interface	BNC x 2	MDR26	IEEE 1394b	BNC x 4
Resolution	1920 x 1080p	depends on camera specification	depends on camera specification	640 x 480 (NTSC/RS170), 768 x 576 (PAL/CCIR)
Interface Bus	PCle x4	PCIe x4	PCle x4 / PCle x1	PCIe-RTV24: PCIe x1 PCI-RTV24: PCI
Max. Video Input	2	2	4/2	4 to 16*
Max. Frame Rate	60	depends on camera specification	depends on camera specification	30 fps / channel
Audio Input	SDI embedded	-	-	-
TTLI/O		√	√ (FIW64)	
Area Scan Camera	\checkmark	\checkmark	\checkmark	
Line Scan Camera	-	\checkmark	-	-
Interlaced Scan	\checkmark	\checkmark		
Progressive Scan		\checkmark	\checkmark	-
Camera Tap	-	1-tap, 2-tap, 3-tap, 4-tap	-	1-tap (PCle-RTV24)
Pixel Depth	8, 10, 12-bit	8-bit, 10-bit	depends on camera specification (FIW64) 8 to 10-bit (FIW62)	8-bit
Max. Clock Frequency	-	85 MHz	-	-
On-board memory	-	128 MB	-	-





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WORLDWIDE OFFICES

Logicbus Inc. USA

1043 Broadway Ste, #103 Chula Vista, California, 91911, USA Tel: +1 619-616-7350 Email: support@logicbus.com

Logicbus SA. De CV. México

Av. Alcalde #1822, Col. Miraflores Guadalajara, Jalisco, México. Tel/Fax:+52 33-3823-4349 Tel: +52 33-3854-5975 Mexico City, Mexico, Tel: +52 55-8995-3820

ADLINK Technology, Inc.

9F, No.166 Jian Yi Road, Zhonghe District New Taipei City 235, Taiwan 新北市中和區建一路166號9樓 Tel: +886-2-8226-5877 Fax: +886-2-8226-5717 Email: service@adlinktech.com

ADLINK Technology Singapore Pte, Ltd

84 Genting Lane #07-02A, Cityneon Design Centre, Singapore 349584 Tel: +65-6844-2261 Fax: +65-6844-2263 Email: singapore@adlinktech.com

ADLINK Technology Singapore Pte. Ltd. (Indian Liaison Office)

#50-56, First Floor, Spearhead Towers Margosa Main Road (between 16th/17th Cross) Malleswaram, Bangalore - 560 055, India Tel: +91-80-65605817, +91-80-42246107 Fax: +91-80-23464606 Email: india@adlinktech.com

ADLINK Technology Japan Corporation

〒101-004東京都千代田区神田鍜冶町3-7-4 神田374ビル4F KANDA374 Bldg. 4F, 3-7-4 Kanda Kajicho, Chiyoda-ku, Tokyo 101-0045, Japan Tel: +81-3-4455-3722 Fax: +81-3-5209-6013 Email: japan@adlinktech.com

ADLINK Technology, Inc. (Korean Liaison Office)

경기도 성남시 분당구 수내로46번길4 경동빌딩 2층 (수내동 4- 4번지)(우) 463-825 2F, Kyungdong B/D, 4 Sunae-ro 46beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea, 463-825 Toll Free:+82-80-800-0585 Tel: +82-31-786-0585 Fax: +82-31-786-0583 Email: korea@adlinktech.com

ADLINK Technology (China) Co., Ltd.

上海市浦东新区张江高科技园区芳春路300号 (201203) 300 Fang Chun Rd., Zhangjiang Hi-Tech Park Pudong New Area, Shanghai, 201203 China Tel: +86-21-5132-8988 Fax: +86-21-5192-3588 Email: market@adlinktech.com

ADLINK Technology Beijing

北京市海淀区上地东路1号盈创动力大厦E座801室(100085) Rm. 801, Power Creative E, No. 1 Shang Di East Rd. Beijing, 100085 China Tel: +86-10-5885-8666 Fax: +86-10-5885-8626 Email: market@adlinktech.com

ADLINK Technology Shenzhen

深圳市南山区科技园南区高新南七道数字技术园 A1栋2楼C区 (518057) 2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7 High-Tech Industrial Park S., Shenzhen, 518054 China Tel: +86-755-2643-4858 Fax: +86-755-2664-6353 Email: market@adlinktech.com

ADLINK Technology GmbH

(Mannheim) Hans-Thoma-Strasse 11, D-68163 Mannheim, Germany Tel: +49 621 43214-0 Fax: +49 621 43214-30

(Deggendorf) Ulrichsbergerstrasse 17, 94469 Deggendorf, Germany Tel: +49 (0) 991 290 94-10 Tel: +49 (0) 991 290 94-29 Email: emea@adlinktech.com

ADLINK Technology, Inc. (French Liaison Office)

6 allée de Londres, Immeuble Ceylan 91940 Les Ulis, France Tel: +33 (0) 1 60 12 35 66 Fax: +33 (0) 1 60 12 35 66 Email: france@adlinktech.com

ADLINK Technology, Inc. (UK Liaison Office)

First Floor West Exeter House, Chichester Fields Business Park Tangmere, West Sussex, PO20 2FU, United Kingdom Tel: +44-1243-859677 Email: UK@adlinktech.com

ADLINK Technology, Inc. (Israel Liaison Office)

27 Maskit St., Corex Building PO Box Herzliya 4673300, Israel Tel: +972-54-632-5251 Fax: +972-77-208-0230 Email: israel@adlinktech.com



Leading EDGE COMPUTING
support@logicbus.com
sales@logicbus.com

San Diego, Ca. USA. +1 (619)-616-7350 Mexico City. +52 (55)-8995-3820 Guadalajara, Mexico. +52 (33)-3854-5975