OPALE V2-ATX

Reliable embedded industrial PC's



■ Ready for OEM with Modified COTS services

When generic doesn't fit, Multi-Core OPALE V2 family based on standard ATX form factor, offers flexibility to fit into many applications for OEM, system integrators and application providers in a variety of domains: building automation, facility management, rugged servers for harsh environments (Aero/Mil), high availability embedded computers for cybersecurity, central data acquisition, control/command, vision...

To precisely meet your requirements, even for small quantities, ECRIN Systems takes full system development responsibility and guarantee long term availability to allow you to concentrate on your added value. From mechanical parts to industrial design, with front and remote user interfaces, user LED's and I/O's, easy customized front and rear connectors, specific face-plate color and design, lexan polycarbonate sheet with your logo and brand name, we will offer you a unique look that will shape your image and promote your sales.

- > Modified COTS with easy brand naming, configuration and customization for competition advantage
- > Local and remote active management to detect errors before they occur
- > Enhanced asset protection for continuous operation: durable connectors, enhanced USB compatibility, rugged EMI construction
- > MIL-STD tests passed (for T°C, shocks & vibrations, humidity, noise)
- > Reduced TCO with reporting Log file and downtime in harsh environments
- > Energy efficient design / Low noise at 37dBA (equivalent to no risk)
- > Long life management: up to 7 years with revision control
- > Advanced Multi-Core "Skylake" boosted computing performance with DDR4 speeds and timings
- > Accommodate maximum PCle slots and flexible configuration
- > Extended ATX compliant / 451mm depth only

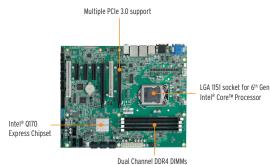


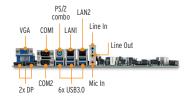
Rack specifications		
Construction	Anti-corrosion and long term heavy-duty steel, black color	
Dimensions (W x H x D)	19'' / 4U with 17.8 inch depth (483x177x451mm)	
Weight	17 kg (standard configuration)	
Color	Black	
Cooling	Three 92mm ball bearing low noise fans with monitoring	
	Front access for easy maintenance	
Power supply	PS2 form factor, compliant with Mini Redundant PSU	
Drive bays	Two 5.25" front accessible drive bay	
Motherboard	ATX: 12" x 10"	
	Extended ATX: 12" x 13" (30.5cm x 33cm)	
Front panel	Front door with lock, two USB and drive bays access	
	Front door for dust filter and fans maintenance	
	Embedded MMI, 4 LEDs with I/O capabilities	
	Lexan for easy customization	
Cards lock	Adjustable hold down bar for I/O cards	
	Rugged front holding parts for full length I/O cards	
Packaging (W x H x D)	600 mm x 345 mm x 640 mm	
Industrial motherboard specifications		
Form factor	ATV : 12" v 10" (20 5cm v 25 4cm)	

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A: Dust filter & Fan access door B: LCD 2x16 characters C: Keyboard (Power & Reset) D: Lexan for easy customization E: 2 x USB (optional) F: 4 x tri-color LEDs G: Key lock H: Drive bay door

Industrial motherboard speci	rd specifications		
Form factor	ATX: 12" x 10" (30.5cm x 25.4cm)		
Processor	LGA1151 socket for 6 th Gen Intel® Core™ processor (codename Skylake)		
Chipset	Intel® Q170 Express Chipset		
Memory	Dual channel DDR4 2133 MHz, up to 64 GB - Four 288 PIN DDR4 V-Sockets		
Video	Integrated Intel® HD Graphics: 1* VGA (1920 x 1200 @60Hz) and		
	2x DisplayPort 1.2 (4096 x 2304 @ 60 Hz)		
BIOS	AMI® UEFI BIOS, 128 Mb SPI Flash Memory		
Ethernet	2 x GbE (Intel® 1219-LM + Intel® 1211-A)		
	Intel® AMT and Wake On LAN support		
Disk	6x SATA 6.0 Gb/s ports - Software RAID support 0/1/5/10		
Audio Codec	Realtek® ALC262-VC2-GR (Line-in, Line-out, Mic-in)		
USB	6x USB 3.0 connector (rear), 2x USB 3.0 pin header,		
	4x USB 2.0 pin headers, 2x USB 2.0 (vertical type A connector)		
Watchdog timer	24~65536 sec. software programmable and can be generate system reset		
Hardware monitor	CPU/System temperature and fan speed / onboard DC voltages		
I/O peripherals	PS/2 keyboard/mouse: 1x Mini-DIN		
	Serial port: 2x RS-232/422/485 with auto flow control + 4x RS-232		
	Parallel port : 1x LPT		
	Digital IO: 1x 10-pin/2.54mm GPIO pin header: 4 in and 4 out		
Expansion I/O Slots	Flexible configuration: PCle 3.0 bifurcation supports up to 5x PCle 3.0 expansion slots:		
	- 1x PCle x16 + 2x PCle x4 + 2x PCl slots		
	- 2x PCle x8 + 2x PCle x4 + 2x PCl slots		
	- 1x PCIe x8 + 4x PCIe x4 + 2x PCI slots		





Environmental specification

Temperature	Operating: 0~50°C (MIL-STD-810G method 502.5 / 501.5) - Storage: -20~80°C
Humidity	Operating : 5% to 90% non condensing
Altitude	0-3000m (0-10.000ft) operating
Shock & vibration	Operating: 15G, 11ms 6 axis (MIL STD 810 F, method. 516.5) - 5~100 Hz 0.8G (MIL STD 810 F, method. 514.5)
Noise	37 dBA (MIL-STD-740-1)
CE certification	EMC: 2014/30/UE; EN 61000-6-2, EN55032, EN 55024 - SAFETY: 2014/35/UE; EN60950-1: 2006 2 nd edition A11: 2009 + A1: 2010 + A12: 2011 + A2: 2014

- > Intel® AMT for remote management
- > Local control with embedded MMI (Windows & Linux services)
 - FAN control & monitoring - System & network information
 - Watchdog & elapsed time counter
 - Redundant P/S default

- > Branding user's Lexan Costless, NRE fees only
- > Modified COTS customization:
- Front panel design
- Specific I/O on front panel / special connectors on rear panel
- Specific H/W configurations
- Specific S/W functionality

Call us for more information ...

- Redundant P/S default - East Standard configuration		- Easy configuration with .TXT file	- Specific S/W functi	onality Call us for more information
			Options	
	Power Supply Unit	ATX 12V - 400W - High Efficiency 80+ 90 ~ 240 VAC full range / 47~63 Hz 5V@22A, 12V@32A, -12V@0.8A, 3.3V@22A, 5Vstb@3.5A Option for 2x 500W Redundant P/S 90-240VAC full range / 47-63Hz	Processor	- Intel® Core™ i7-6700 (4C/8T, 3.4 GHz, 8M Cache, 14nm, 65W TDP) - Intel® Core™ i7-6700TE (4C/8T, 2.4 GHz 8M Cache, 14nm, 35W TDP) - Intel® Core™ i5-6500 (4C/4T, 3.2 GHz, 6M Cache, 14nm, 65W TDP) - Intel® Core™ i5-6500TE (4C/4T, 2.3 GHz, 6M Cache, 14nm, 35W TDP) - Intel® Core™ i3-6100 (2C/4T, 3.7 GHz, 3M Cache, 14nm, 51W TDP)
	Drives	1 x Slim DVDRW 1 x 2.5" SATA Removable Drive	Memory	- Intel® Core™ i3-6100TE (2C/4T, 2.7 GHz, 4M Cache, 14nm, 35W TDP) DDR4-2133 : 4Go / 8Go / 16Go / 32Go / 64Go
	Front I/O (behind door)	1 x 5.25" front accessible drive bay free (up to 4x removable 2.5" HD or SSD) 2 x USB 2.0	Disk	- 2.5" 7200 RPM Hard Drive (500Go ~ 1To) - SLC and/or MLC Solid State Drive (32 Go ~ 2To) - Up to 5x hot swap 2.5" HDD/SSD total with optional 4in1 drive bay
	Rear I/O	2x DP + 1x VGA display outputs + 2x GbE 6x USB 3.0 + 2x COM + Audio + PS/2 KB/MS	0S	Microsoft® Windows® 7 32/64-bit, Windows 8.1 & 10 64-bit Linux 32/64-bit

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- Alarm (fan, temperature, redondant P/S),

- User script launch form menu entry

Log file

Marketing & sales

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