

Innovation to the Next-Level Healthcare

Medical Panel Computer for Critical Care

New MLC 8 Series Medical Panel Computer



In modern hospitals, there is an increasing need for digital healthcare to allow hospitals to improve workflows and patient experience. Medical-grade computers and mobile devices that support patient monitoring, data transfer, and wireless transmission are becoming increasingly essential for providing streamlined patient care in clinical environments. By leveraging* PENTA's design methodology and manufacturing capabilities in the medical field, ADLINK provides a great variety of medical-grade computers, monitors, and mobile tablets to enable hospitals and clinical institutions to deliver the highest quality and optimum patient care in a wide range of healthcare environments.

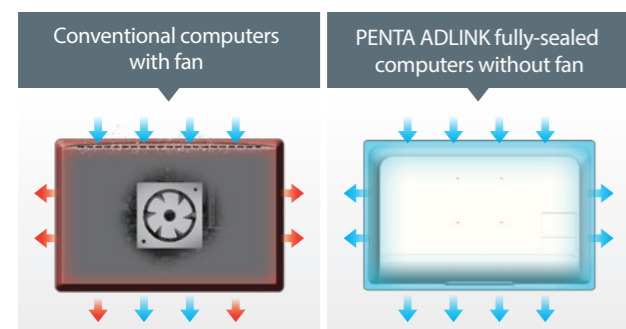


MLC 8 Series: Most Versatile Medical Panel Computer Family

ADLINK's new series of MLC 8 medical computers with 8th Generation Intel® Core™ processors delivers selectable computing performance and outstanding graphics processing capabilities. The new MLC 8 Series is designed with hygiene in mind, fully-sealed and easy-to-clean housings. They can be used in landscape or portrait orientation for patient's vital sign monitoring, nursing care, clinical diagnosis, PACS (Picture Archiving and Communication System), anesthesia monitoring and operating room documentation. With additional safety design and expansion capabilities, ADLINK's medical panel computers and monitors provide a reliable and flexible system with high usability and convenience for doctors and hospital staff.

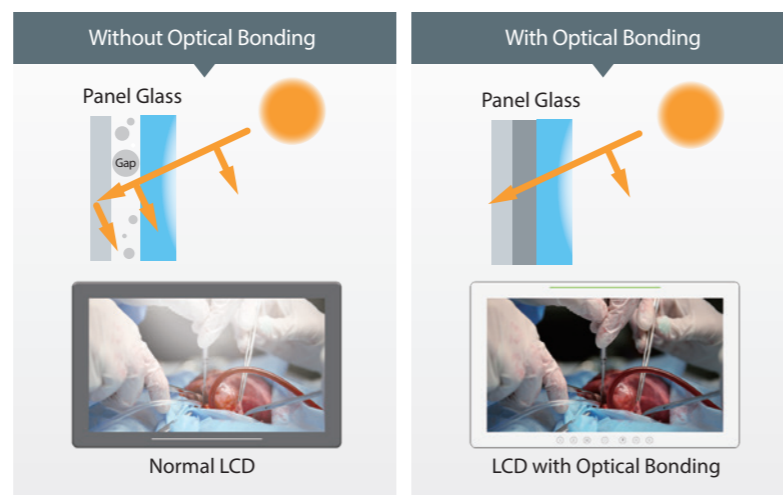
Convenient Infection Control and Effective Cleaning

The patent-pending screw-less aluminum housing of the new MLC 8 Series protects against dust and liquid intrusion in critical patient environments, and the fanless design doesn't disturb the controlled laminar airflow in operating rooms and surgical intervention rooms. The user-friendly design allows the use of all common disinfectants and cleaning agents to prevent accumulation of microbes in order to maintain high hygiene standards required of medical environments.



Superior Viewing Capabilities

The MLC 8 Series offers Full HD and UHD displays with capacitive touchscreen, anti-glare coating and optical bonding for enhanced viewing capabilities. Optical bonding prevents condensation, reduces reflections for increased visibility, and improves the durability of the display.

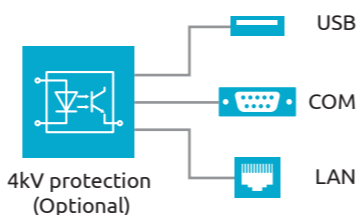


Advanced Functionality and Flexibility

The MLC 8 Series is designed with rich I/O flexibility and includes two DisplayPort outputs to support external monitors required for extended viewing space. An optional UPS backup battery prevents from data loss; wireless connectivity of Wi-Fi, RFID, and Bluetooth is supported to enable mobility and one miniPCIe, one PCIe x16, and two M.2 expansion slots are provided for custom expansion and operational flexibility.

Increased Safety Design

The MLC 8 Series can also be optionally equipped with galvanically isolated COM ports and LAN ports to connect to medical devices and is compliant with 2 x MOPP for enhanced safety. As required for medical electrical equipment, it is designed with electromagnetic emission shielding according to all relevant standards, minimizing interference with other equipment, and is in full compliance with IEC/EN-60601-1 and IEC/EN-60601-1-2.



Model Name		MLC 8-21	MLC 8-24	MLC 8-27
Computing System	CPU	Intel® Core™ i7-8700T Processor, 2.4 GHz (Turbo up to 4.0 GHz) (12M Cache), 35W Intel® Core™ i5-8500T Processor, 2.1 GHz (Turbo up to 3.5 GHz) (9M Cache), 35W Intel® Core™ i3-8100T Processor, 3.1 GHz (no Turbo) (9M Cache), 35W		
	Chipset	Intel® Q370		
	Graphics	Intel® UHD Graphics 630		
	Memory	Support for dual-channel non-ECC DDR4 – 2400/2666, with up to 64 GB		
Display Characteristics	Size	21.5"	23.8"	27"
	Resolution	FHD 1920 x 1080*		
	Max. Colors	16.7M		
	Viewing Angle	178° h/v		
	Luminance (cd/m²)	> 250	> 250	> 350
Expansion Slot	PCIe	1x PCIe x16 Gen 3.0 slot (PEG port) 1x full-size mPCIe slot to support PCIe / mSATA (by GPIO setting) and USB 2.0 1x M.2 (2230) slot to support PCIe and USB 2.0 1x M.2 (2280) slot to support PCIe / mSATA (by GPIO setting) and USB 2.0		
	SSD	2.5" SATA SSD, capacity upon request		
I/O Ports	Serial Port	Optional up to 4 ports (4 kV isolated also optional)		
	USB Port	2x USB 2.0 (4 kV isolated optional) 4x USB 3.0		
	Display Port	2x DisplayPort, max. res. 4096 x 2304, 60 Hz		
	LAN	2x Ethernet 10/100/1000 Mbit/s (4 kV isolated optional)		
	Audio	Audio Line-out / Mic-in		
Power	100-240 V ~ 50/60 Hz (internal medical-grade PSU) or 24 V DC with external medical PSU			
UPS Backup Battery (Optional)	15 - 20 min			
Environmental	Operating	0 °C to 30 °C		
	Storage	-10 °C to 60 °C		
	Ingress Rating	IP65		
Mechanical	Dimensions	527.2 x 341.3 x 88 mm	602 x 371 x 87 mm	673 x 411 x 87 mm
	Weight	~12 kg	11.4 kg	12.3 kg
	Housing	Aluminum		
	Mounting	VESA 100		
Certificates	IEC 60601-1: 2012 EN 60601-1: 2013 IEC 60601-1-2: 2014 EN 60601-1-2: 2015			

* 4K/UHD resolution display options are available upon request.

*Note 1: ADLINK acquired PENTA GmbH to leverage its extensive experience in the design and manufacture of medical embedded computer systems and monitors.

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