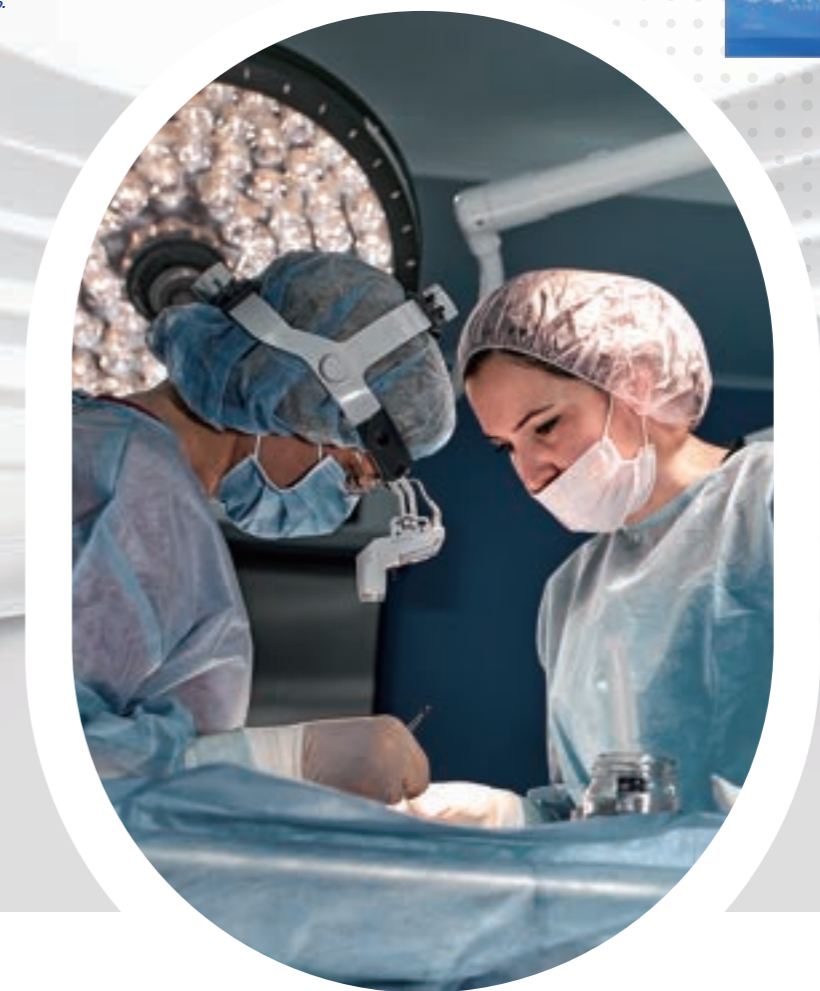


MATE2-2212 / 2412



onyx
Smart Healthcare an ASUS assoc. co.



CONTACT INFORMATION

Onyx Healthcare Inc.

4F., No.135, Lane 235, Pao Chiao Rd.,
Xindian Dist., New Taipei City 231,
Taiwan (R.O.C.)
Tel: 886-2-8919-2188
Fax: 886-2-8919-1699
E-mail: sales@onyx-healthcare.com

Onyx Healthcare EUROPE B.V.

Primulalaan 42, 5582 GL, Waalre,
The Netherlands
Tel: +31-(0)499-745600
E-mail: sales@onyx-healthcare.com

Onyx Healthcare USA, Inc.

324 W. Blueridge Ave.,
Orange, CA 92865
Tel: +1-714-792-0774
Fax: +1-714-792-0481
E-mail: sales@onyx-healthcare.com



SPECIFICATIONS

	MATE2-2212	MATE2-2412
Model	MATE2-2212	MATE2-2412
Processor	Intel® 13th Generation Core™ i9/i7/i5 Processor	
System Memory	Supports Dual Channel DDR5 5600 SODIMM up to 64GB	
OS Support	Microsoft® Windows 11, Microsoft® Windows 10 (64bit) , Linux®	
Expansion Interface	PCI Express[x4]/[x1] x1 (optional)	
Storage	M.2 2280 SATA SSD x 1 / 2.5" SATA Hard Disk Drive/SSD x 1 (optional)	
Wireless Communication	802.11ac/ax(optional), Bluetooth 5 (optional)	
Touchscreen	Capacitive Multi-Touch	
Speakers	2W x 2	
Power Requirement	AC 100~240V / DC 12V / 24V	
Security	Trusted Platform Module 2.0 , Imprivata RFID Reader (optional)	
Waterproof	IP65 in the front; IP54 in the back	
Display	22" LCD	24" LCD
Resolution	FHD 1980 x 1080	
Max. Colors	16.7 M	
Contrast Ratio	1000:1	3000:1
Luminance [cd/m2]	250	
Function Key	LCD Brightness Up/Down, Touch Screen On/Off, Reading Light On/Off	
IO	USB 3.2 Gen 2 x 2, USB 3.2 Gen 1 x 2, RS-232 x 2 or x 1, Gigabit LAN x 2, HDMI 2.0 x2 or x1, Mic-in, Line-out	
Mounting	75/100 mm VESA mount	
Operating Temperature	0°C ~ 35°C (32°F ~ 95°F)	
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
Storage Humidity	10%~95%@35°C, non-condensing	
Dimension	542(L) x 355(W) x 67(H)	586(L) x 381(W) x 67(H)
Net Weight	7.5kg	8.7kg
Certifications	CE: EN 60601-1-2:2015(V4.0), EN 60601-1:2006/A1:2013(V3.1) FCC: Part 18 Class B, UL: ANSI/AAMI ES60601-1:2012 (V3.1) CUL: CAN/CSA-C22.2 No. 60601-1:2014 (V3.1)	

22" / 24"

INTEL® 13th GEN CORE PROCESSORS
POWERFUL MEDICAL AIO



www.onyx-healthcare.com

INTEL® 13th GEN CORE PROCESSORS



- Performance hybrid architecture with Intel® Thread Director available in Intel® Core™ i9 and i7 processors, and additionally in Intel® Core™ i5 processors.
- Intel® Thread Director optimizes performance for concurrent workloads across the cores.
- Up to 24 cores and up to 32 threads.
- Up to 36 MB Intel® Smart Cache.

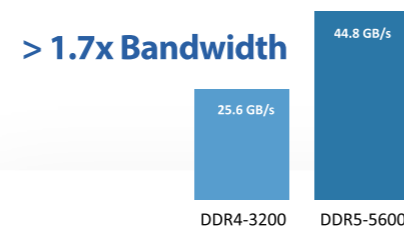
Processor Number	Processor Cores (P+E)	Processor Threads	Intel Smart Cache (L3)	Total L2 Cache	P-core Max Turbo Frequency (GHz)	E-core Max Turbo Frequency (GHz)	ECC Memory Supported
i9-13900TE	24(8+16)	32	36MB	32MB	Up to 5.0	Up to 3.9	Yes
i7-13700TE	16(8+8)	24	30MB	24MB	Up to 4.8	Up to 3.6	Yes
i5-13500TE	14(6+8)	20	24MB	11.5MB	Up to 4.5	Up to 3.1	Yes

ABOUT MATE2

The MATE2-2212 / 2412 are fanless medical AIO computers with 22 / 24-inch FHD 1920x1080 resolution wide viewing angle display and capacitive multi-touch screen. Featuring powerful Intel 13th generation Core i9/i7/i5 processors supporting turbo boost up to 5.0GHz, the MATE2-2212/2412 are designed as powerful medical AIO computers for use in operating rooms, emergency departments, and intensive care units where image data processing, high definition and crystal-clear images are necessary for critical patient care.

HIGH BANDWIDTH DDR5-5600 MT/S MEMORY

DDR5 at 5600 MT/s delivers up to a 1.7x overall improvement in memory bandwidth compared to DDR4 at 3200 MT/s.



IMPRIVATA COMPLIANT RFID READER

RFID is an emerging and effective way to secure confidential, valuable and often highly sensitive information handled by hospitals. MATE2 series offers dual-frequency 125kHz & 13.56MHz RFID reader, which is compliant to Imprivata single sign-on solution.



NEW WI-FI GENERATION: Wi-Fi 6E

Wi-Fi 6E adds the 6GHz band to the existing 2.4GHz and 5GHz bands available in Wi-Fi 6. The additional 6GHz band will help reduce congestion in areas with lots of Wi-Fi networks, improving network performance and reliability. Wi-Fi 6E can support up to 9.6Gbps data rate.

Wi-Fi Generation	IEEE Standard	Max. Data Rate	Radio Frequency
Wi-Fi 5	IEEE802.11ac	6.9 Gbps	5 GHz band
Wi-Fi 6 Wi-Fi 6E	IEEE802.11ax	9.6 Gbps	2.4GHz / 5GHz band Wi-Fi 6E 6 GHz band



FANLESS COOLING DESIGN & IP65 WATERPROOFING FOR EASY MAINTENANCE

The fanless cooling design eliminates the cooling fan and ventilation holes in the housing giving the MATE2 an IP65 front panel and IP54 enclosure for superior infection control and quiet operation that helps keep environments cleaner and lowers maintenance efforts. The housing design is optimized for improved waterproofing, including the additional ports for cables to pass through while stopping water from entering the device.

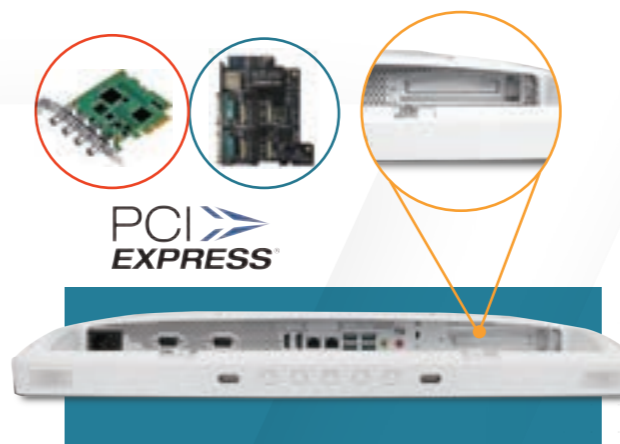


EASY CABLE MANAGEMENT

With the cable tie mounts, you can fix cables firmly and neatly with cable ties. Screwless latches let you install the cable cover quickly and easily.

FLEXIBLE POWER INPUT OPTIONS: AC-INPUT OR DC-INPUT

MATE2 offers both wide range AC 100~240V input with an internal power supply and +12V/+24V DC input with an external power adapter options.



ONE PCI EXPRESS [X4] / [X1] SLOT

With an optional PCI Express [x4] / [x1] slot, you can extend the system peripheral capabilities by adding a 4K resolution video capture card, 10Gb fiber-optic LAN card, or isolated RS-232 / USB card.



BATTERY BACKUP POWER FOR UNINTERRUPTIBLE OPERATION

Uninterruptible operation is critical for medical devices. An optional 25Wh battery backup power supply can support up to 40 minutes of additional operation.