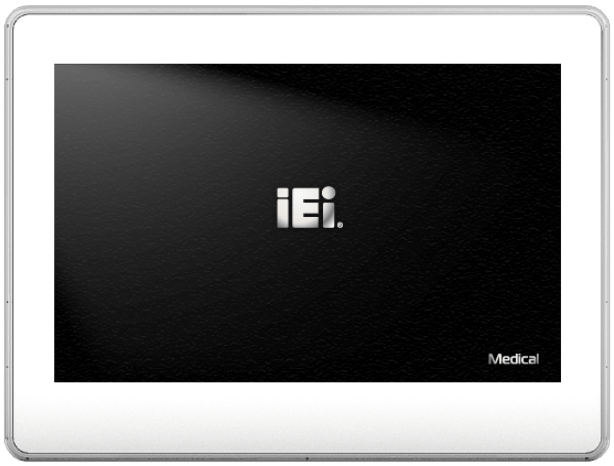
IASO-W10B-N6210

10.1” Medical Panel PC with Intel® Celeron® N6210 processor



Features

» Intel® Celeron® Processor N6210

» Programmable LED light bar on both sides

» 10-point PCAP touch with optical bonding

» IEEE 802.3 PoE (optional)

» RFID (NFC) reader (optional)

Specifications

Form factor	
Form factor	» Intel® Celeron® Processor N6210
	» Programmable LED light bar on both sides
	» 10-point PCAP touch with optical bonding
	» IEEE 802.3 PoE (optional)
	» RFID (NFC) reader (optional)
System	
Cooling method / System Fan	Fanless
I/O Interface	
I/O Interface	1 x
	1 x
	2 x (5Gb/s)
	1 x (jack (TRRS))
	1 x (2.5GbE supporting PoE (with 1.5kV isolation))
	1 x
	1 x (output)
LCD	
Viewing Angle (H-V)	178˚/178˚
Power	
Power adapter	65W medical grade power adapter
Environment	
Humidity	10% – 95% (non-condensing)
LCD	
LCD Color	16.7M (RGB 6-bit + Hi-FRC)
Other Features	
LED Light Bar	2 x LED light bar
LCD	
Size	10.1” (16:10)
Brightness (cd/m2)	400
Environment	
Safety & EMC	CE, FCC Class B Part18
	EN 60601-1: 2006/A1:2013 (Edition 3.1)
	EN 60601-1-2: 2015 (Edition 4.0)

LCD	
Backlight MTBF	30,000 (LED backlight)
Other Features	
Audio	AMP 1W + 1W (internal speaker)
Physical Characteristics	
Construction	Rear cover: ABS+PC plastic (ENH2900)
Construction Front Panel	Front: PC
LCD	
Contrast Ratio	800:1
Touch	
Touch Screen	Projected capacitive type with 10-point multi-touch and optical bonding
Environment	
Operating Temperature	-20°C – 40°C
IP Level	Front: IP65
Operating Vibration	1G
Physical Characteristics	
Dimensions (LxWxH) (mm)	261 x 196.4 x 40
Other Features	
Microphone	1 x Digital microphone
Power	
Input	12V DC jack
	Class 5 (IEEE802.3bt) PD device w/ full loading taken on I/O
System	
CPU	Intel® Celeron® N6210 (Elkhart Lake, 6.5W TDP)
LCD	
Pixel Pitch (mm)	0.1695 x 0.1695
Physical Characteristics	
Net Weight	1.49 kg
Environment	
Operating Shock	Operating shock: 5G peak acceleration (11ms duration)
	Non-operating shock: 15G peak acceleration (11ms duration)
I/O Interface	
Audio	AMP 1W + 1W (internal speaker)
Ethernet	1 x Intel® I225 Ethernet Controller
Communication	
Bluetooth	Bluetooth® 5.3
LCD	
Resolution	1280 x 800
Environment	
Storage Temperature	-20°C – 60°C
I/O Interface	
RAM	1 x DDR4 SO-DIMM slot
System	
SSD	1 x M.2 2242 M key (PCIe/SATA signal)
Touch	
Touch Controller	EETI
Physical Characteristics	
Mounting	Wall, Stand and Arm; VESA 75 compliant
Communication	
Wi-Fi	Intel® Wi-Fi 6E AX210, IEEE 802.11a/b/g/n/ac/ax, MIMO 2x2

Ordering Information

IASO-W10B-N6210/4G-R10	10.1" 400cd/m² medical panel PC with Intel® Elkhart Lake TDP 6.5W Celeron® N6210, one 4GB DDR4 RAM,Wi-Fi 6E module, PCAP touchscreen
IASO-W10B-N6210/4G/PoE-R10	10.1" 400cd/m² medical panel PC with Intel® Elkhart Lake TDP 6.5W Celeron® N6210, one 4GB DDR4 RAM,Wi-Fi 6E module, PCAP touchscreen, IEEE802.3 PoE

Packing List

1 x Power Adapter	1 x Power Cord

Intel® Celeron® N6210 (Elkhart Lake, 6.5W TDP)

- **CPU TDP 6.5W**
  Either lower power consumption at the same performance, or higher performance at equal TDP
- **Integrated gigabit Ethernet (2.5GbE)**
  Hard real-time—even via standard Ethernet
- **Up to a 1.7x improvement in single-thread performance**
  Processor performance boost
- **Up to a 1.5x improvement in multi-thread performance generation over generation**
  Processor performance boost
- **Up to 2x performance improvement in graphics over previous generation**
  Doubling graphics speed for immersive experiences

Programmable LED Light Bars on Both Sides

1. LED light bars on both sides
Bright and simple outlook with programmable LED lights on both sides. The colorful light and display can be adjusted according to use conditions.

2. Usage scenarios
It can be used to detect the status light signal, or to warn the ward aisle.

3. Programmable LEDs
Each light bar has 10 programmable RGB LEDs with IEC62471 certification.

4. Translucent front frame
The front frame is made of translucent material to make the frame light and thin.

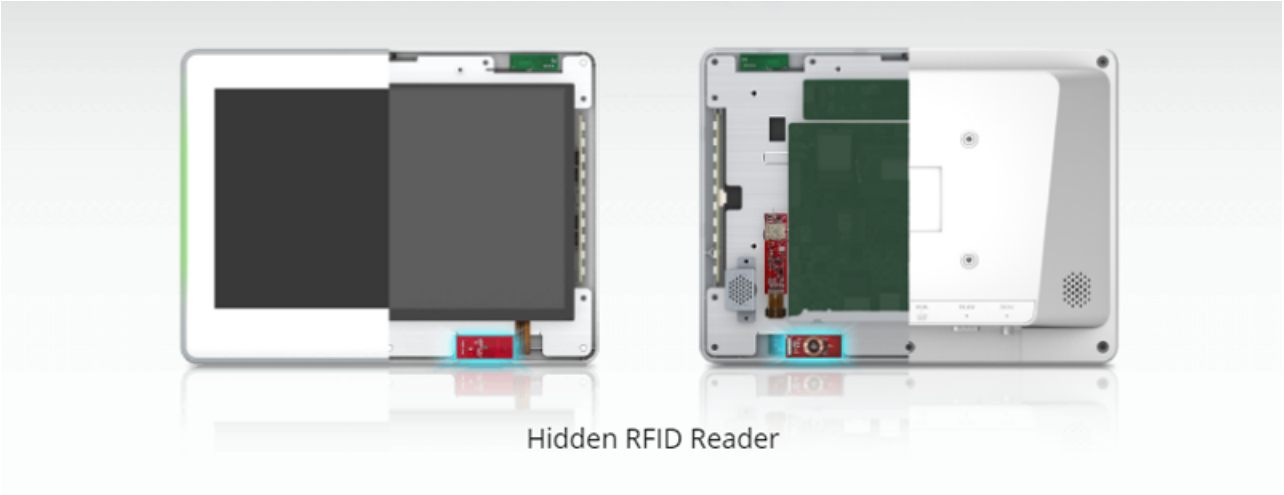
Color Codes for Safety Signs

- IEC60601-1-8:General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems.
- ANSI Z535.1-2017:A standard that describes the color codes that can be used on accident prevention signs, labels, and tags. This also includes the marking and location of first aid equipment, fire extinguishers, trip/slip hazards, and other potential hazards or safety equipment.

	IEC60601-1-8		ANSI Z535.1-2017
Red	Flashing	High priority alarm condition:Immediate action to prevent injury.	Fire protection equipment and apparatus,danger signs, containers of flammable liquids,lights at barricades, stop button/switches. (PMS 186)
	Not flashing	Warning:Avoidance of a HAZARDOUS SITUATION which could cause death or serious injury	
Yellow	Flashing	Medium priority alarm condition:Prompt action to prevent injury.	Specific physical hazards(including falling, tripping and striking) and designating caution(including cabinets, cans and containers for explosives,corrosives or unstable materials).(PMS 109)
	Not flashing	Caution:Avoidance of a HAZARDOUS SITUATION which could cause minor or moderate injury or equipment damage.	
Green	Ready for use		Safety information and first aid or safety equipment.(PMS 335)
Orange	The significance of these colors may be defined by the end-user.		Signs and equipment designating dangerous or energized machines/equipment.(PMS 151)
Blue	The significance of these colors may be defined by the end-user.		Information not immediately safety-related(i.e. property policies including safety gear requirements).(PMS 285)
Purple	The significance of these colors may be defined by the end-user.		The significance of purple may be defined by the end-user, but purple(or the combination of purple and yellow) has become the de facto standard for radiation hazards.(PMS 259)
Gray Black White or any combo of these and/ or Yellow	The significance of these colors may be defined by the end-user.		The significance of these colors may be defined by the end-user.

RFID Reader (optional)

An RFID dual-band card is capable of reading both 125 kHz and 13.56 MHz credentials.

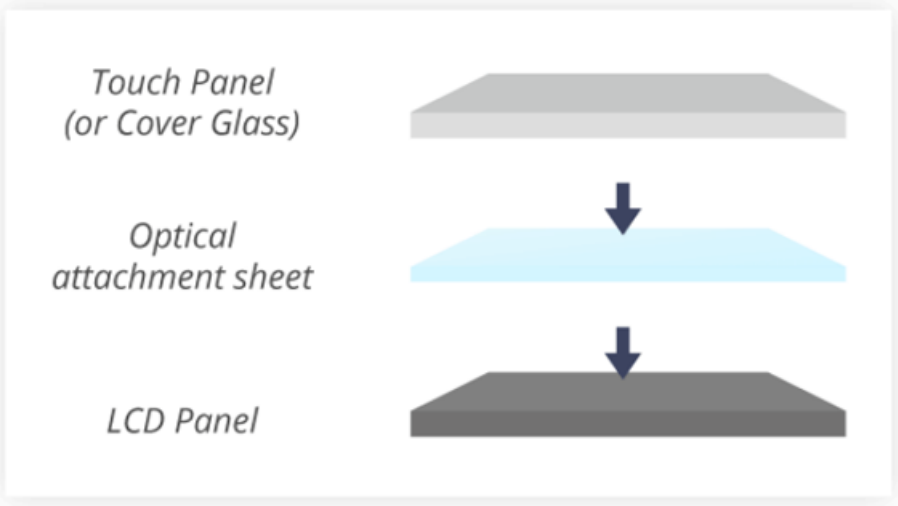


Hidden RFID Reader

	Frequency	Range	Cost	Memory	Penetration of Materials	Data Rate	Reader Cost	Read Multiple Tags	Applications
LF	125 - 134.2 KHz	0.2 - 2m	Typ. 3GBP	Typ. 64 bits	V. Good	Slow	50 - 500 GBP	Poor	Animal Tags. Vehicle Immobilisers. Industrial Applications
HF	13.56 MHz	Up to 1m	Typ. 0.50GBP	Typ. 2048 bits	Good	Fast	50 - 3000 GBP	Good	Item Tracking. Access Control. Smart Labels

10-Point Touch Screen with Optical Bonding

10-Point touch screen with 6H surface scratch resistance supports control with multiple layers of surgical gloves. Optical bonding can dramatically reduce the internal reflections, help improve the brightness and contrast ratio of the display, enhance system ruggedness, and strengthen shock and vibration resistance.



LCD Humid & Dust ProtectionPanel

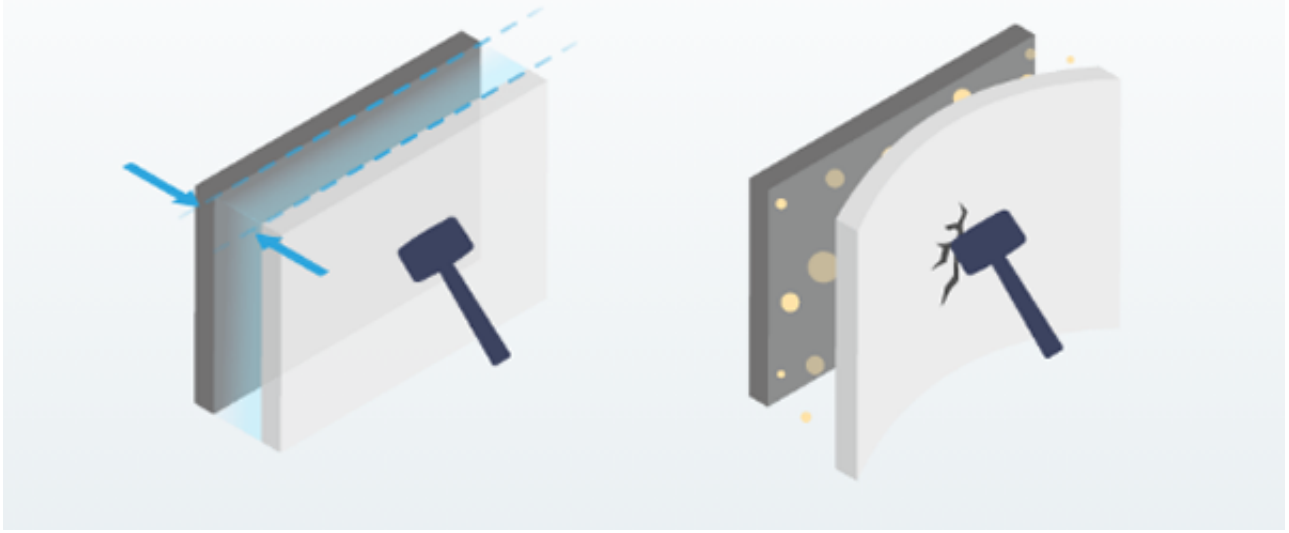
Anti-UV

Medical glove touch

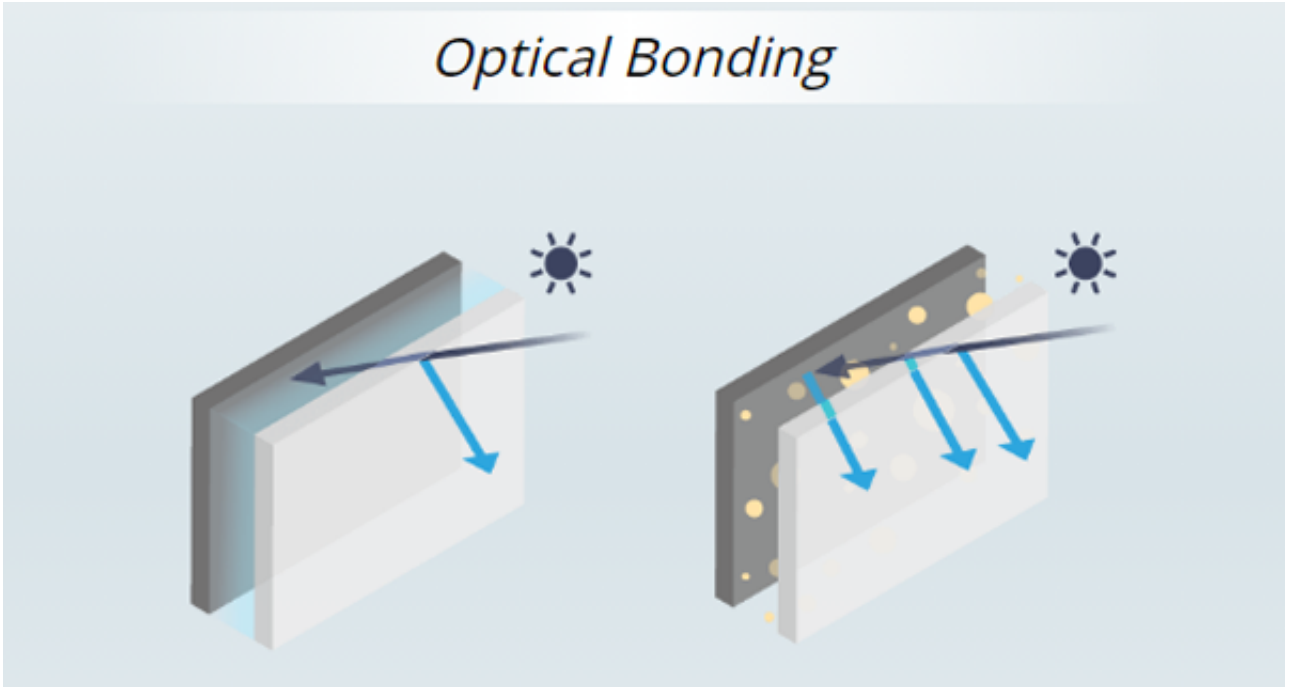
Reduced Weight

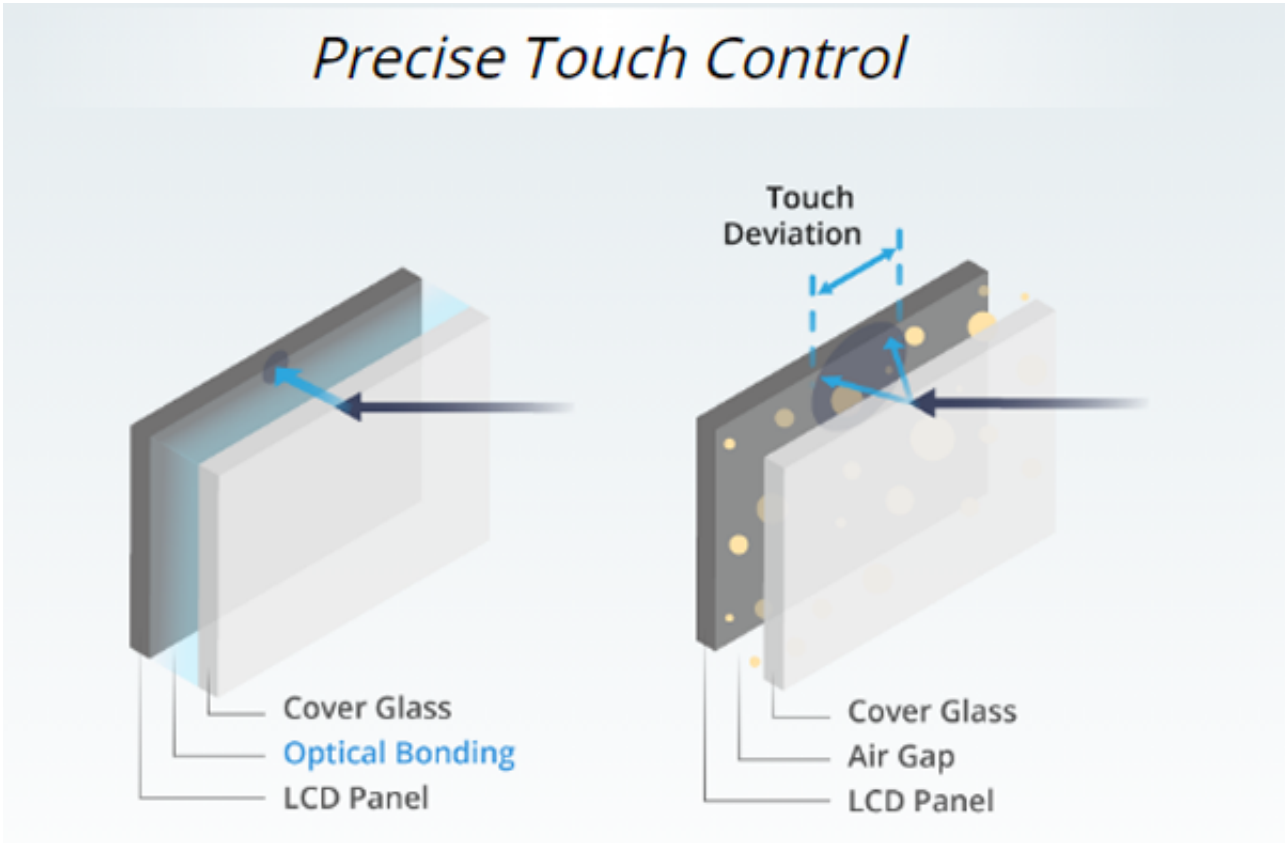
Better Visibility

Enhanced Durability



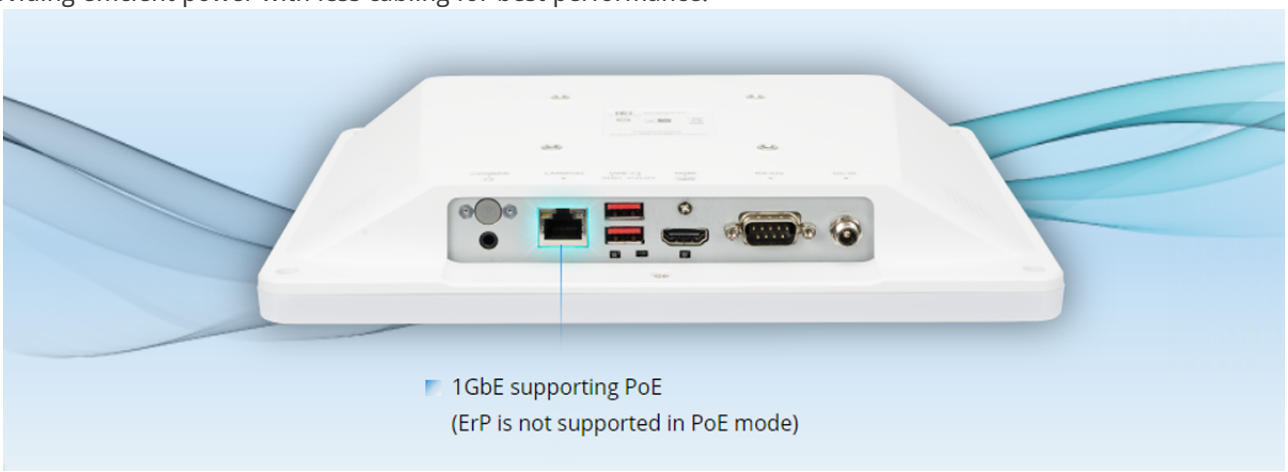
Optical Bonding

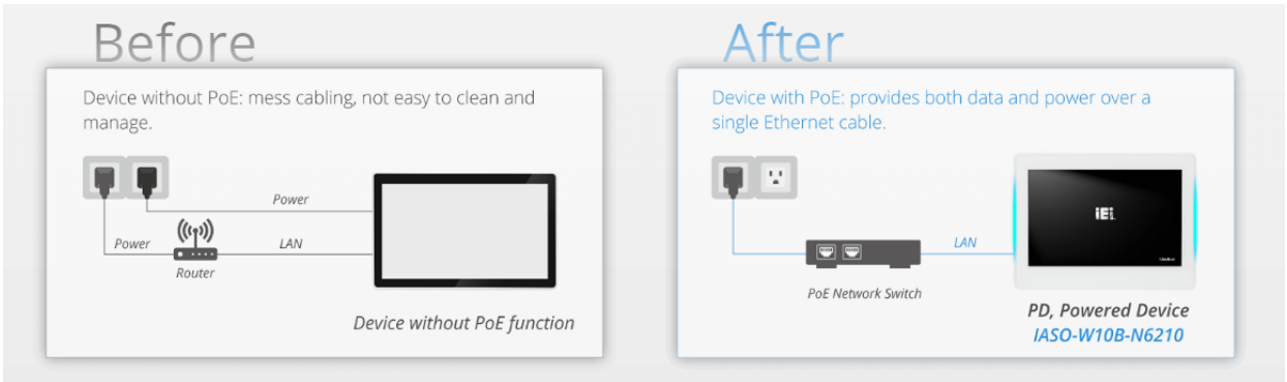




Power over Ethernet (optional)

Providing efficient power with less cabling for best performance.





- IASO-W10B-N6210 compliant
  with IEEE802.3at Class 4 & IEEE 802.3bt Class 5

Class	PSE Output(W)	PD Input(W)	PoE Type	Standard
0	15.4	12.95	1	IEEE 802.3af
1	4	3.84	1	
2	7	6.49	1	
3	15.4	12.95	1	
4	30	25.5	2	IEEE 802.3at
5	45	40	3	IEEE 802.3bt
6	60	51	3	IEEE 802.3bt
7	75	62	4	
8	90	73	4	IEEE 802.3bt

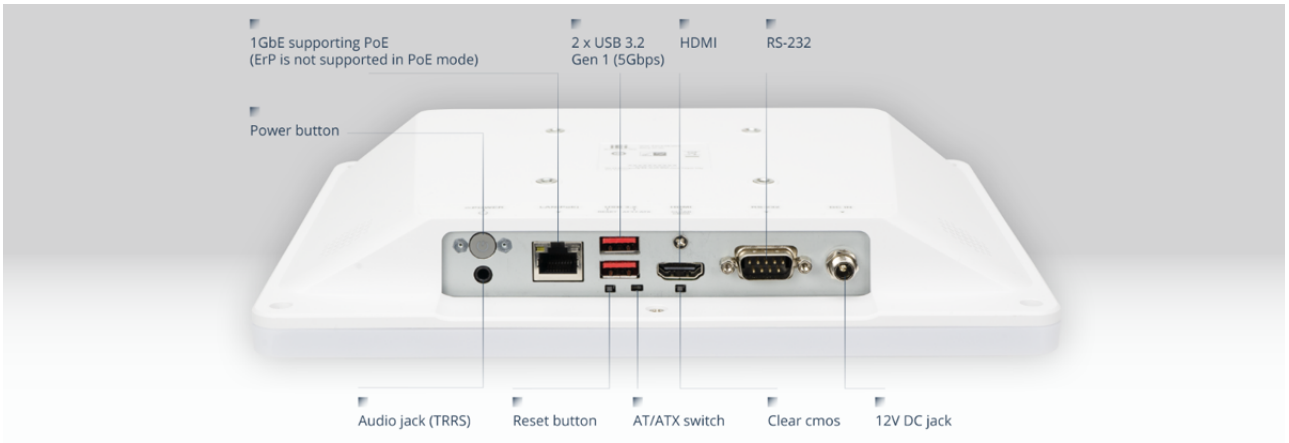
AI Audio Analytics Workflow

IASO-W10B-N6210 provides fully deep learning-based, top-quality AI audio analytics. Real-time detect emergencies in the hospital lounge/ward, including under-staffed areas, restricted areas and surveillance blind spots. Notify staffs to enable faster response and reduce rescue time.

In-Wall Mounting

» Easy maintenance – just removing five screws for disassembly.
» IASO-W10B-N6210 can be embedded in or on the wall.

I/O Interface



Dimensions