EBN
EBN Technology Corp.

YOUR BEST POS KIOSK PARTNER

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BOOTH #3965

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Company History

EBN Technology was founded in 2003.   Its Board of Directors mainly sits representatives from the Quanta (2382) group of companies and Para Light Electronics Co. (6226). Mr. **David Ma** is the Chairman of   EBN. Mr. **Amos Tseng** is the President of   EBN. Most of the research and manufacturing members come from IPC and the ODM/EMS notebook computers group. Sales personnel compose of sales experts from Taiwan, America, Europe and Japan.   The entire senior management team at EBN is a combination of senior managers from the original Quanta Group, including the CEO, COO, CFO, CTO, and CMO.

EBN Technology Corp. established the Industrial Internet of Things (IIoT) business group in the year 2017. In the industrial networking, the machine can interact and communicate with other machines, objects, environment and infrastructure. The results of the communication produce a wealth of information that can be processed and analyzed to provide meaningful and immediate decisions for management and control.

Market Position "Navigator of the Successful Business Model"

EBN's industrial positioning came from its name: Enterprise Business Navigator, which combines Business Driven with the EBN Way of product development.   It uses a special vertical business model for basic application needs, and adds possible dynamic variabilities to define a macroscope "product specification".   From there it divides into categories towards a microscope "engineering specification", and then establishes design, verification, quality control standards, mass production testing process, hardware/software installation procedures, maintenance assemblies and standard operating procedure review and modification.

This Upstream model of product development, the EBN Way, ensures that any EBN customer at any point in the supply chain can, through its application, directly or indirectly strengthen its investment benefit.   It also raises the Return on Investment (ROI) for its capital market's KPI.   Therefore EBN establishes itself as the "Navigator of Successful Business Models" on the market.

1.   For System Integration Vendors: EBN Way products' human machine interface specifications and environment compatibility specifications, such as established parameters, calculation speeds, I/O ports, and touch screens, are

all closely linked to actual commercial operation scenarios.   Therefore these are the greatest benefactors of the Navigator.

2. For the Systems Operation Vendor and Repair and Maintenance Vendor: the high level of system stability and easy to main characteristic of EBN's end point computing equipments greatly lower the Total Ownership Cost of equipment operation, further adding to the operational profit under the EBN Way Navigation.

3. For Corporate End Users: End Point Calculation Facilities developed under the EBN Way have indirectly become the tools for navigating their business development.   The ways in which these increase commercial operational efficiency, improve overall commercial operation cost control, and diversify Big Data application in various ways, are all chips for expanding EBN Navigation in commercial territories.

Product Range

POS Terminal

- Dragon series
    - Baytrail (intel^R CPU)
    - Skylake (intel^R CPU)
    - Kabylake (intel^R CPU)
    - Gemini Lake (intel^R CPU)
    - Elkhart Lake (intel^R CPU)
    - Alder Lake (intel^R CPU)
- XPOS 7 series
- XPOS 8 series
- Private label series

POS Monitor

- Dragon series
    - 15" 4:3
    - 15.6" 16:9
    - 13.3" 16:9
- Private label series

POS Peripherals

- Second display
- VFD / VFD-3D
- MSR / MSR Combo
- Powered USB hub
- Barcode Scanner
- Private label series

Panel PC

- XPPC 7 series
- XPPC 8 series
- Private label series

Fanless BOX PC

- Boxster 3
- Private label series
- BPC06
- BPC07
- BPC10
- BPC20
- BPC90

Research, Development, and Production Services

Original Design Manufacturer, ODM

EBN's professional research, development and manufacturing team, highly advantaged as the first class, world leading computer equipment manufacturer, provides brand vendors with dedicated, high quality ODM service.   This service is special in that it considers the special business model application interface's local needs, long range needs, and their dynamic variations as the three major parameters, from which it forms industrial design (ID), electronics engineering (EE), software (SW), manufacturing equipment (ME), and the reliable all-encompassing EBN Way product specification.   Then it will consider the vertical application scenario to evolve an innovative engineering specification, including standards control and ways to verify quality and trustworthiness for design, mass production, installation, operation, and maintenance procedures.

As clients have very limited control over product design and production under the ODM business model, when quality abnormality problems are encountered for most computing equipment, the most troubling scenario is the NTF (No Trouble Found), meaning that the manufacturer cannot reproduce the abnormal scenario.   Thus is born a new ODM service model, done the EBN Way.   Not only does this model easily breaks through the problems of application incompatibility, as introduced by the fact that tradition ODM services only run product standard design verification procedures, it also creates greater Customer Satisfaction for EBN clients, thereby ensuring their Business Security.

Quality Comes from Product R&D and Design Authentication Mechanisms:

The quality of developed products is assured by Quanta Group's supply chain management, highly tempered schematics, more than 8 layers of PCB stack-up, uniform layout of heat producing elements (CPU, core logics, graphics, memory, and POWER MOSFET), eradication of chemical capacitors (EC), singularized PCBA, SMD manufacturing process, and so on.

The structural system's R&D quality is guaranteed by idiot proof design of assembly mechanisms, which is obtained through techniques for selecting mould steel material, stress minimization, conditions for contingencies, pattern drawing methods, low resistance heat dissipation moulds, and optimization of common conditions.

System design verification methods for EBN Technology products are an important part of the EBN Way.   The product usage scenarios in various vertical markets for terminal computing devices are used to define the product testing environment's target temperature and humidity.   Also defined are the power supply environment, compatibility with the external operating system's related peripherals, testing methods, testing conditions, and suitable dynamic stress.   Margins are reserved for lowering the standard value to ensure that qualitative expectations for the application scenario's environment are met.   As for quality control standards, aside from thoroughly implementing ISO 9000 and ISO 14000, automated optical inspection (AOI) was also introduced for testing at the production line.   On-site production management and defect-free rate, aside from having to reach functional quality control levels, must also conform to more stringent, more application directed ergonomic (Nice-To-Have) quality control items.   In this way, not only will the terminal device end users benefit, systems integration vendors and system installation/maintenance vendors will also share in the reward of guaranteed quality provided by EBN through its design verification.

Vision

EBN Technology commits itself to the research, development, and manufacturing of terminal computing devices.   It focuses not only on high profit structuring but, more importantly, on establishing a vertical market layout for providing localized services.   Through the research of more fundamental calculation methods it creates a richer variety of diversified products and more vertical market applications.   With vigorous client building and establishing deep market roots, EBN secures the greatest benefits for its investors.

15.6" Modularized Brick POS PC

◇ Robust & Stylish 15.6" Die casting POS integrated with a wide variety of peripherals.
◇ Foldable structure design in a compact size to save Total Logistics Cost (TLC).
◇ Motherboard designed as proprietary form factor to support diverse intel CPU platforms.
◇ Single cable connection.
◇ Tile angle 0-90 degree.
◇ Modularized Design.
  Combinations of USB Type-C Monitor, Stand, Box PC to be All-in-One POS PC.
◇ Standard VESA holes for various mounting ways.

Features

Panel PC Mode

AIO POS Mode

POS Pole Mount Mode

Touch Monitor Mode

Box PC Mode

Base Module

Box PC Module

Display Module

Multi-Configuration by ONE USB-C

Specifications

		MG0N	ME0N	MA1N
Touch	PCT	PCT (Projected Capacitive Touch) Support 10 points Multi Touch		
Screen	15.6"	15.6" 1366 x 768 (220nits) , Optional 1920 x1080 (250nits / 300nits)		
Motherboard		**MG0N**	**ME0N**	**MA1N**
CPU	FCBGA	J4125 (4C/4T) 2.0G Up to 2.7GHz	J6412 (4C/4T) 2.0G Up to 2.6GHz	Alder Lake-N Coming soon
Memory	SO-DIMM	1 x DDR4, Up to 8GB	2 x DDR4, Up to 32GB	1 x DDR5, Up to 16GB
Storage	mSATA SSD	1 x m.2 2280 M-key slot		
	2.5" HDD or 2.5" SSD	N/A		
Communication	Wi-Fi or 3G / 4G LTE	1 x 802.11 ac/a/b/g/n Wireless (m.2 2230)		
Interface	USB	6 x USB3.0, 2 x USB-C		
		Option Internal x USB 2.0 on 100pin header		
	Cash Drawer	1 x Cash Drawer supported 12V or DC-IN Voltage 19V/24V select by Jumper		
	LAN	1 x Giga LAN	Intel i-225V 2.5Giga LAN	
	Display	2 x USB-C (One for main display and another for extended display) 1 x HDMI		
	COM	2 x RS232 (RJ-50) RI / 5 / 12V select by BIOS		
	Audio Connector	1 x 3.5 mm headphone and microphone combo jack		
	Power	5.5 x 2.5 mm DC-IN Voltage 12-20V	5.5 x 2.5 mm DC-IN Voltage 12-24V	
Other	LED indicator	1 x Power		
	Power Switch	1 x Power On/Off switch		
	AC Adaptor	65W (19V/3.42A)		
	VESA	75mm x 75mm		
	Operating temperature	0~40℃ (32~104℉)		
	Storage temperature	-20~60℃ (-4~140℉)		
	Dimension	379 (W) x 190.7 (D) x 317.4 (H) mm / 14.9 (W) x 7.5 (D) x 12.5 (H) inch		
	Weight	G.W. 6 Kg / 13.2 pounds N.W 5 Kg / 11 pounds		
	Accessory	Optional RJ50 to DB9 convert cable (COM Port) Optional MSR, VFD customer display, 10.1" 2nd display…USB Peripherals		
	Regulation	CE , LVD , FCC , VCCI		

I/O Interface

USB 3.0   CD/DIO   LAN   HDMI   USB-C   COM   AUDIO DC-IN
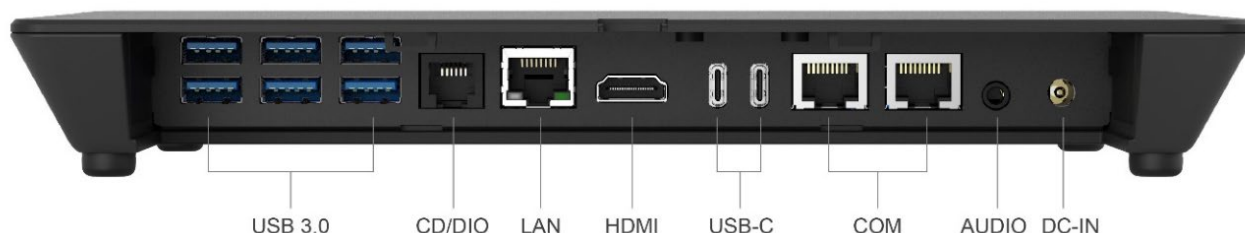
Dimensions (mm)

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15.1" / 15.6" All in One POS

◇ Robust All-in-One POS terminal integrated with a wide variety of peripherals.
◇ Foldable structure design in a compact size to save Total Logistics Cost (TLC).
◇ Motherboard designed as proprietary form factor to support diverse intel CPU platforms.
◇ Single Cable connection.
◇ Tile angle 20-83 degree.
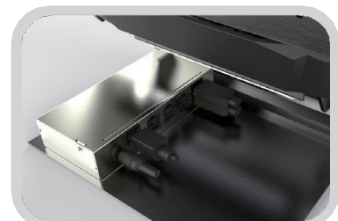◇ Standard VESA holes to support various mounting ways.

Features

Bezel-Free PCAP Touch

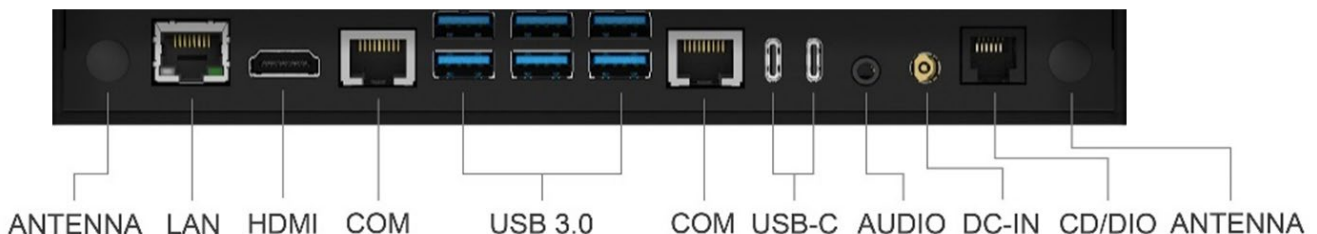Power LED status indicate

Support 12V / 24V Powered USB Expansion
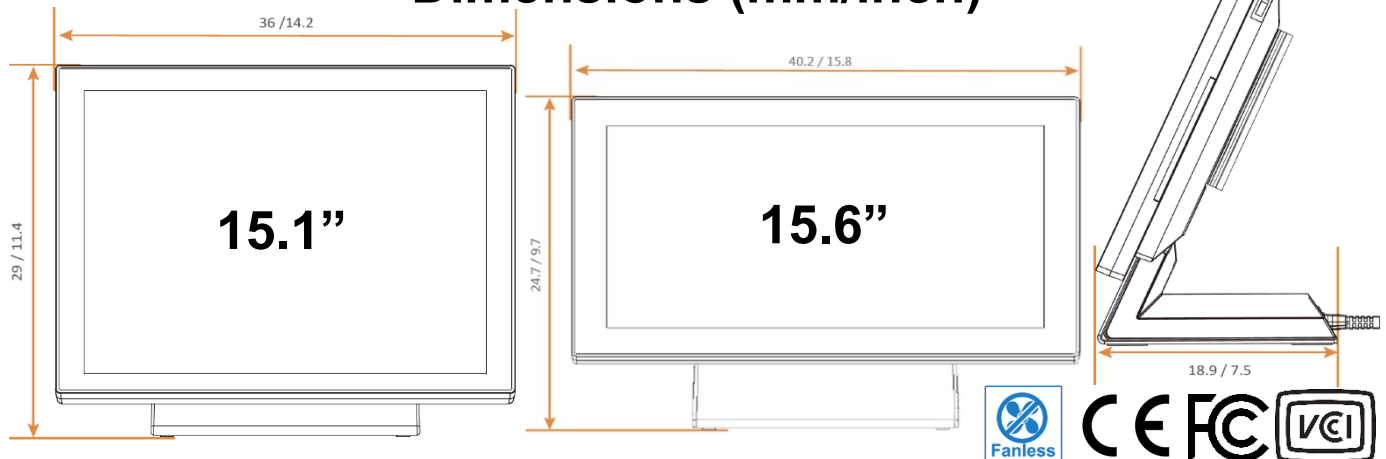

10.1" 2nd display and VFD Supported

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Specifications

Touch	PCT	PCT (Projected Capacitive Touch) Support 10 points Multi Touch		
Screen	15.1" 15.6"	15.1" 1024 x 768 (400nits); 15.6" 1366 x 768 (220nits) , Optional 1920 x1080 (250nits / 400nits)		
Motherboard		**MG0N**	**ME0N**	**MA1N**
CPU	FCBGA	J4125 (4C/4T) 2.0G Up to 2.7GHz)	J6412 (4C/4T) 2.0G Up to 2.6G	Alder Lake-N Coming Soon
Memory	SO-DIMM	1 x DDR4, Up to 8GB	2 x DDR4, Up to 32GB	1 x DDR5, Up to 16GB
Storage	mSATA SSD	1 x m.2 2280 M-key slot		
Communication	Wi-Fi or 3G / 4G LTE	Optional 802.11 ac/a/b/g/n Wireless module (m.2 2230) Build-in antenna hole x 2 for Wi-Fi / Bluetooth / LTE modules		
Interface	LAN	1 x Giga LAN	1 x Intel i-225V 2.5Giga LAN	
	Display	1 x HDMI		
	COM	2 x RS232 (RJ-50) RI / 5V / 12V select by BIOS		
	USB	6 x USB3.0, 2 x USB-C Option Internal 4 x USB 2.0 on 2 x 9 pin header		
	Audio Connector	1 x 3.5 mm headphone and microphone combo jack		
	Power	5.5 x 2.5 mm DC-IN Voltage 12-20V	5.5 x 2.5 mm DC-IN Voltage 12-24V	
	Cash Drawer	Cash Drawer supported 12V or DC-IN Voltage 19V/24V select by Jumper		
Other	LED indicator	1 x Power		
	Power Switch	1 x Power On/Off switch		
	AC Adaptor	65W (19V/3.42A)		
	VESA Hole	75mm x 75mm		
	Operating temperature	0~40℃（32~104℉)		
	Storage temperature	-20~60℃（-4~140℉)		
	Dimension 15.1"	360 (W) x 290 (H) x 189 (D) mm (Folding 53.7 mm) / 14.2 (W) x 11.4 (H) x 7.5 (D) inch (Folding 2.11 inch)		
	Dimension 15.6"	402 (W) x 247 (H) x 189 (D) mm (Folding 53.7 mm) / 15.8 (W) x 9.7 (H) x 7.5 (D) inch (Folding 2.11 inch)		
	Weight 15.1"/15.6"	G.W. 7 Kg / 15.4 pounds N.W 6 Kg / 13.2 pounds		
	Accessory	Optional RJ50 to DB9 convert cable (COM Port) Optional MSR, VFD customer display, 10.1" 2nd display…USB Peripherals		
	Regulation	CE , LVD , FCC , VCCI		

I/O Interface

ANTENNA LAN HDMI COM USB 3.0 COM USB-C AUDIO DC-IN CD/DIO ANTENNA

Dimensions (mm/inch)

36 /14.2

29 / 11.4

15.1"

40.2 / 15.8

24.7 / 9.7

15.6"

18.9 / 7.5

Fanless · CE · FC · VCI

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Embedded IoT Box PC

Embedded IoT Box PC Fan-less Box PC, large size heat sink, robust housing with Intel® Gemini lake refresh CPU, comes with 8GB of DDR4 memory support. Versatile I/O connectivity is provided by 6x RS232, 6x USB 3.0, 2x USB C, 1x GbE, while expansion is supplied by m.2 2230 mini-PCIe slots for optional variety of Wi-Fi / 3G/4G LTE connections. Supported operating systems include Windows 10 / 11 / Linux kernel 4.0+ & associated distributions.
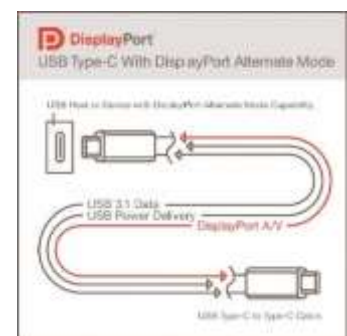

Features

6pcs COM ports for more extended functions- 4pcs COM DB9 are optional

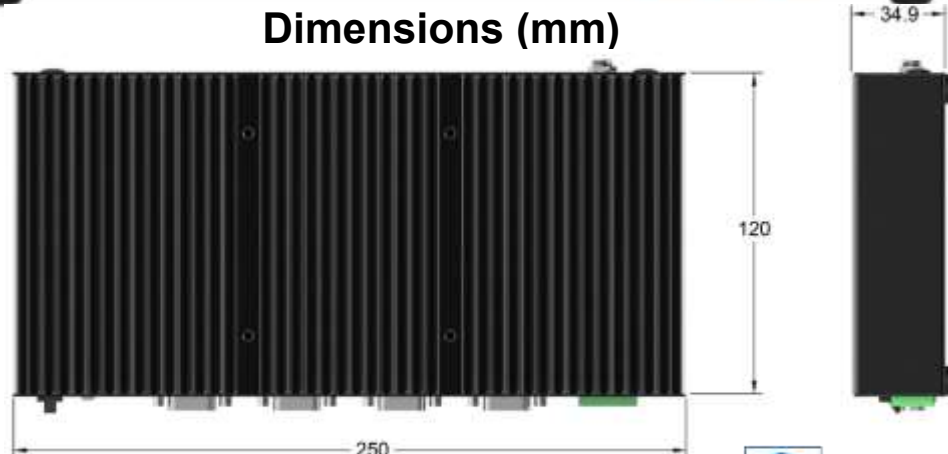**Remote PWR Switch-Optional**

Two USB C DP Alternate Mode and PD

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Specifications

CPU	FCBGA 1090	J4125 (4C/4T) 2.0G Up to 2.7GHz
Memory	SO-DIMM	1x DDR4, Up to 8GB
Storage	mSATA SSD	1x m.2 2280 M-key slot
	2.5" HDD or 2.5" SSD	N/A
Communication	Wi-Fi or 3G / 4G LTE	1 x 802.11 ac/a/b/g/n Wireless (m.2 2230)
Interface	USB	6x USB3.0
		2x USB Type-C with PD (PD is option support total max 60W)
	LAN	1x Giga LAN
	Display	1x HDMI, 2x USB Type-C Alternate mode (up to Triple Display)
	COM	2x RS232 (RJ-50) Pin 9: Ring/5V/12V select by BIOS and option 4x RS232 (DB9) or GPIO (DB9)
	DC-IN Voltage Range	DC 12~20V and support screw lockable 5.5 x 2.5mm DC Plug
	TPM	TPM2.0
	C/D / DIO	C/D RJ-12 Type, support 12V or Bypass DC-IN 12~20 Voltage by Jumper
	Power Switch	1x Power On/Off rocker switch
	Remote Power Switch	Connector for extend switch
	Antenna hole	2 x Antenna holes for Wi-Fi , Bluetooth or 3G/4G LTE
	LED	Power indicator (Green)
	VESA Holes	Support 75mm x 75mm
Environmental	Operating temperature	0~60℃ (32~140℉)
	Storage temperature	-20~80℃ (-4~176℉)
	Relative Humidity	5~95%@40℃ (104℉)
	Vibration	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1hr/axis)
	Shock	With M.2/SSD: 50G, half sine, 11ms, IEC60068-2-27
	Certification	CE (Class B), FCC, LVD
	Dimension	250 (W)x 120 (D)x 34.9 (H) mm
	Accessory (Option)	60W, 65W,90W,130W AC Adaptor, RJ50 to DB9 cable, Wall mount, rack mount, din rail
Software	Operating System	Microsoft Window 10, 11 , Linux 4.0 Kernel such as ubuntu 20.04.5

I/O Interface

4pcs COM DB9 and SW are optional

Dimensions (mm)

34.9

120

250