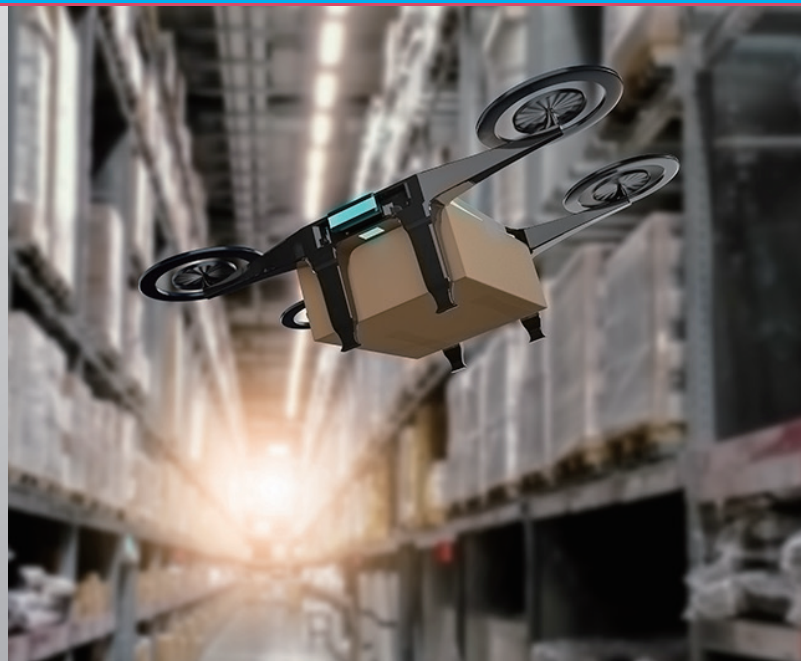# Exceeding the Limits of the Business Model, Starting a New Chapter for Corporate Efficiency

The Era of Multimedia Retail is Coming GIGAIPC Solutions Satisfy the Diverse Needs of the Market

New corporate ideas and opportunities: "Transform" and "Being Smart" for the "future"

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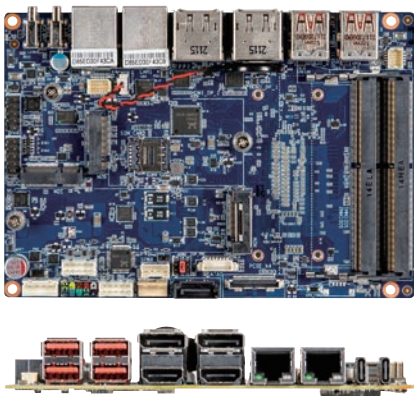
The Era of Multimedia Retail is Coming
GIGAIPC Solutions Satisfy the Diverse Needs of the Market

The retail industry has entered the era of high-quality audio and video. Screen resolutions are becoming higher, and digital contents are becoming easier to produce. As a result, traditional static texts and photos are becoming less attractive. For the smart generation of retailers, digital signage, POS, and kiosks equipped with high-quality displays have become their new marketing tools. Marketing through the use of images has been a part of the retail industry for a long time. However, rapid improvements in image quality and resolution plus the transition to cloud-based management of the images has become the trend in recent years. Therefore, in addition to high-speed computing capabilities, the need for connectivity in retail multimedia systems is also growing day by day. In response to the different multimedia needs of smart retail, GIGAIPC has launched a variety of solutions to provide the industry with comprehensive options.

QBiP-1165G7A/1135G7A/1115G4EA

LCD screens have become the main medium for delivering information for the retail industry, where it is common for a single store to have multiple screens. The GIGAIPC QBiP-1165G7A industrial computer board has 2 HDMI ports, 2 display ports and 1 eDP port built in. System operators can configure different screens according to customer needs with ease. As for the processor, the series is equipped with the Intel® Tiger Lake UP3 platform which offers powerful computing capabilities. The specially designed multiple expansion slots can retain flexibility in response to future needs. The USB Type C PD port with 100W power supply allows the system to easily connect with peripherals and also provide power to these devices. With the elimination of power cables, the internal design of the equipment is more simplistic and the system will be more stable. At present, Type C PD is more commonly found in systems designed in Europe, while adoption by the Southeast Asian market has been slower.

QBiP-1165G7A is suitable for high-resolution digital signage, allowing users to download video and audio through the Internet. In addition to industrial computer boards, GIGAIPC has also launched a box PC version of the product. The box version has the same I/O input and processing resources as the board, except for the eDP port. The QBiP-1165G7A box PC, designed with a thickness of only 3 cm, is suitable for use in small spaces. In addition, the design of the cooling fan maintains the stable operation of the system.

QBiP-1165G7A/1135G7A/1115G4EA

Model	QBiP-1165G7A	QBiP-1135G7A	QBiP-1115G4EA
CPU	Intel® Core™ i7-1165G7 Processor, 12M Cache, up to 4.70 GHz	Intel® Core™ i5-1135G7 Processor, 8M Cache, up to 4.20 GHz	Intel® Core™ i3-1115G4E Processor, 6M Cache, up to 3.90 GHz
Socket	FCBGA1449		
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz		
Ethernet	2 x GbE LAN ports (Intel® I219V and Intel® I211AT)		
Graphic Support	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics 2 x HDMI 2.0, 2 x DP 1.4, 1 x eDP, 4 independent display outputs		Integrated Graphics Processor - Intel® UHD Graphics 2 x HDMI 2.0, 2 x DP 1.4, 1 x eDP, 4 independent display outputs
Audio	Realtek® codec		
Storage	1 x SATA 6Gb/s port (RAID 0/1)		
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key, 1 x 3052 M.2 B-Key with SIM Slot 1 x PCIe X4 (Board to Wire connector)		
Internal I/O	1 x 4-pin box power connector (+12V~24VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header	1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM headers (RS232 & 5V/12V/RI) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x SPI header	
Rear I/O	1 x USB type C (USB3.2 Gen2 + DP output-share with DP & PD Out -100W) 1 x USB type C (USB3.2 Gen2, PD input-100W)	2 x HDMI 2.0 2 x DP 1.4 (8K) 2 x RJ45 LAN ports 4 x USB3.2 Gen2	
TPM	1 x TPM header		
Operating Temp.	0°C to 60°C		

SDM-1135G7L

GIGAIPC SDM-1135G7L uses the Intel® Tiger Lake UP3 computing platform. The main specifications of this product include 3 HDMI 2.0 and 1 DP 1.4 ports. There are also 4 independent display input and output interfaces. The bus series is designed for M.2 E key for wireless communication and M.2 M key expansion slot for storage.

The SDM-1135G7L is suitable for use in POS and kiosks. In recent years, the trend of intelligentization within the retail industry has gradually become more apparent, resulting in the functions of the two previously independent devices, POS and kiosks, gradually overlapping. From the perspective of equipment architecture, both kiosks and POS are relatively simple, with the essential parts of the design being the multiple display ports incorporated in the design, and the LVDS and eDP interfaces required for signal transmission. As for connectivity with peripheral devices, USB ports have replaced COM ports as the main connection port, thereby enhancing system functions and performance.

SDM-1135G7L

Model Name	SDM-1135G7L	SDM-1115G4L
Dimensions	SDM-Large, 175W x 100D (mm)	
CPU	Intel® Core™ i5-1135G7 Processor, 8M Cache, up to 4.20 GHz	Intel® Core™ i3-1115G4 Processor, 6M Cache, up to 4.10 GHz
Socket	FCBGA1449	
Chipset	—	
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	
Ethernet	1 x GbE LAN port	
Graphic	Integrated Graphics Processor - Intel® Iris Xe Graphics 1 x HDMI 2.0 (SDM) 1 x Display Port (SDM) 2 x HDMI 2.0 (Rear) 4 independent display output	Integrated Graphics Processor - Intel® UHD Graphics 1 x HDMI 2.0 (SDM) 1 x Display Port (SDM) 2 x HDMI 2.0 (Rear) 4 independent display output
Audio	Intel® Integrated Audio	
Storage	—	
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key	
Rear I/O	1 x RJ45 LAN port 2 x HDMI 2.0 3 x USB3.2 Gen1 1 x USB 2.0 1 x Power LED 1 x HDD LED 2 x External Antenna Hole (Option) 1 x Reset button 1 x Power button	
TPM	1 x TPM header	
Operating Temp.	0°C to 55°C	