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Datasheet

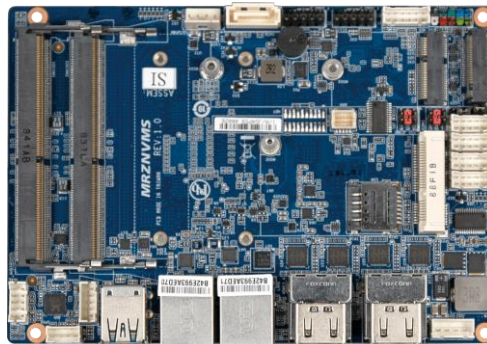
GIGAIPC

QBiP-1605A

**3,5" Embedded Single-Board Computer with AMD® Ryzen
V1605B Embedded Processor, 4x HDMI, Vega 8 Graphics**

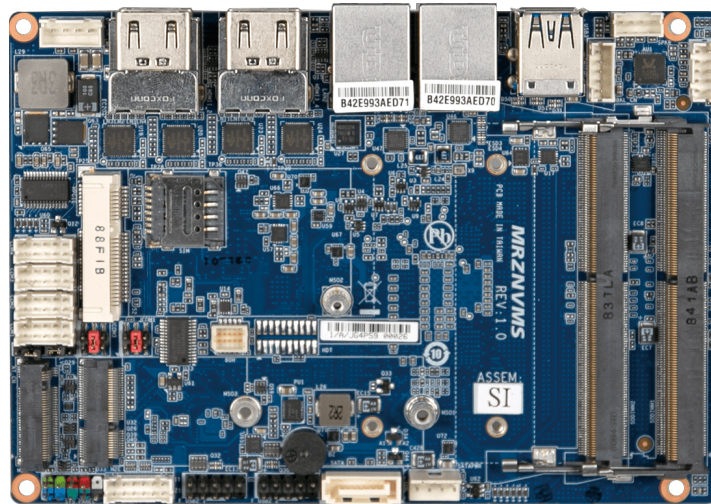
QBiP-1606A

**3,5" Embedded Single-Board Computer with AMD® Ryzen
R1606G Embedded Processor, 3x HDMI, Vega 3 Graphics**



Note: a separate data sheet is available for each version

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QBiP-1605A

3.5" SubCompact Embedded Motherboard with AMD® RYZEN™ V1605B Embedded Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 6 x USB

Key Features

- 3.5" SBC
- AMD® RYZEN™ V1605B Embedded Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN ports
- 1 x SATA 6Gb/s port
- M.2 with SATA 6Gb/s or PCIe X4
- 4 x HDMI, eDP ports for multiple display
- Realtek ALC269 audio codec
- 2 x RS232/422/485/5V/12V/RI COM port
- 2 x RS232 COM ports

Application

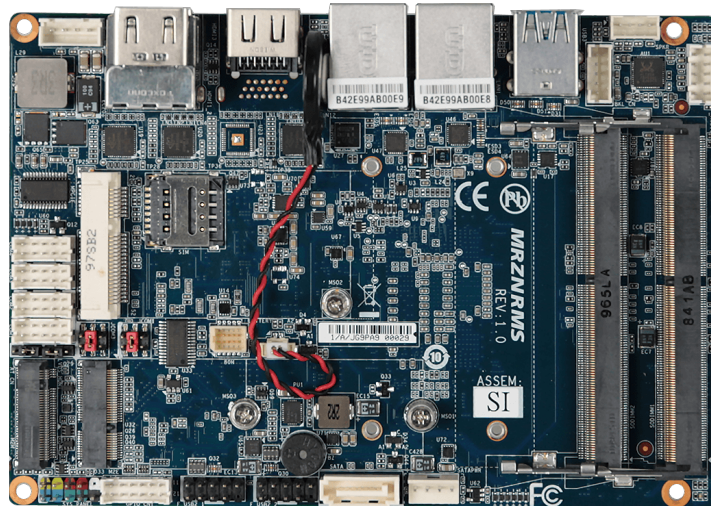
- Retail
- Digital Signage
- Video Wall
- Menu Board

SPECIFICATION

3.5"SubCompact Embedded Motherboard with AMD® RYZEN™ V1605B Embedded Processor, Dual Channel DDR4 memory, 4 x COM , 1 x SATA 6Gb/s, 6 x USB

FORM FACTOR	3.5" SBC 146W x 101.7D(mm)
CPU	AMD® RYZEN™ V1605B Embedded Processor up to 3.6GHz TDP 25W 2MB of shared L2 plus 4MB of shared L3 total
SOCKET	1 x FP5 type 1 BGA
MEMORY	2 x DDR4 SO-DIMM sockets, Max. Capacity 32GB Dual channel memory architecture Support for DDR4 2133 MHz memory modules
ETHERNET	2 x Realtek RTL8111H (10/100/1000 Mbit)
VIDEO	Integrated Graphics Processor - AMD Radeon™ Vega 8 Graphics 4 x HDMI port, supporting a maximum resolution of 4096 x 2160@60Hz 1 x eDP port, supporting a maximum resolution of 1920 x 1080@60Hz
AUDIO	Realtek ALC269 High Definition Audio
STORAGE	1 x SATA 6Gb/s port
EXPANSION SLOTS	1 x M.2 slot: - M-key - SATA 6Gb/s/PCIeX4 - Supports NGFF-2280 cards 1 x Mini-PCIe slot 1 x M.2 slot: - E-key - Supports NGFF-2230 (WiFi/BT) - Full card size - Support PCIe X1+USB2.0 -- support 3G module
INTERNAL I/O	1 x 4 pin box header (DC in) 1 x SATA 6Gb/s connectors 1 x Buzzer 2 x Fan header 1 x Front panel header 1 x Front panel audio header 1 x Speaker out header 1 x SATA Power header 4 x USB 2.0/1.1 headers 1 x GPIO (4 in / 4 out) 2 x COM headers (RS232)

	<p>2 x COM headers (RS422/485/232, RI/5V/12V)</p> <p>1 x Back Light Switch</p> <p>1 x AT mode select jumper</p> <p>1 x 3G/4G Sim Slot</p> <p>1 x SMBUS header</p> <p>1 x eDP connector</p>
REAR I/O	<p>4 x HDMI</p> <p>2 x RJ45</p> <p>2 x USB3.0</p>
TPM	SECURITY TPM SLB9665VQ2.0
OS COMPATIBILITY	Windows 10 (x64)
PSU CONNECTORS	1 x 4-pin Box header power connector (9~36V Full Range)
OPERATING PROPERTIES	<p>Operating temperature: 0°C to 60°C</p> <p>Operating humidity: 0-90% (non-condensing)</p> <p>Non-operating temperature: -20°C to 70°C</p> <p>Non-operating humidity: 0%-95% (non-condensing)</p>
PACKAGING CONTENT	<p>Box Packing Capacity: 20pcs</p> <p>Carton size: 379 x 245 x 197(mm)</p> <p>Content:</p> <p>SATA Power cable x 1 (25CRI-200B02-K1R)</p>
ORDER INFORMATION	Motherboard : 9MRZNVMSMR-SI



QBiP-1606A

3.5" SubCompact Embedded Motherboard with AMD® RYZEN™ R1606G Embedded Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 6 x USB

Key Features

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SPECIFICATION

3.5" SubCompact Embedded Motherboard with AMD® RYZEN™ R1606G Embedded Processor, Dual Channel DDR4 memory, 4 x COM , 1 x SATA 6Gb/s, 6 x USB

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MEMORY	2 x DDR4 SO-DIMM sockets, Max. Capacity 32GB Dual channel memory architecture Support for DDR4 2400 MHz Memory modules
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	<p>2 x COM headers (RS232) 2 x COM headers (RS422/485/232, RI/5V/12V) 1 x Back Light Switch 1 x AT mode select jumper 1 x 3G Sim Slot 1 x eDP connector</p>
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ORDER INFORMATION	<p>9MRZNRMSMR-SI</p>

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