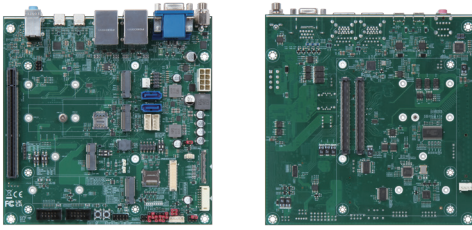


# PCOM-C605R

Mini-ITX size form factor carrier board for COM Express Type6 module



## FEATURES

- COM Express carrier board support Type6 Compact/Basic size modules
- Mini-ITX size form factor provides extra expansions slot, reversed side module mounting space for optimized passive cooling solution design
- Supports USB 3.2 Gen2 (Type-A), SATA, PCIe Gen4, 2.5G RJ45, Displayport, VGA, Optional USB4 (Type-C)
- Support wide temperature -40°C ~ 85°C (Selected SKU)
- ATX 8pin 12v input / 12v DC Jack



Portwell PCOM-C605R is a Mini-ITX size carrier board supporting COM Express Type6 module. It follow COM Express Rev 3.1 standard, which is supporting USB4 interface by USB Type-C form factor. And it is also supporting multiple I/O interfaces, including DP display, VGA, PCIe, RJ45, USB 3.2(Type-A), SATA, UART. PCOM-C605R offer an effective next-generation product upgrade path for solutions already using the previous PCOM-C605 based system products. For more product features, please contact your distributor or refer to the datasheet/user manual.

## General

Product	PCOM-C605R
Form Factor	Mini-ITX size (170mm x 170mm)
Supported Module	COM Express Type6 , Compact/Basic size
General Function	RTC battery Postcode display (by LPC expansion) BIOS SPI Socket Power BTN / Reset BTN
Audio codec	Realtek ALC888s

## I/O Interface

SATA	2x SATA(standard type) , 2x M.2 socket share with PCIe	
USB	4x USB 3.2 Gen2 Type-A port , 2x USB4 Type-C port	
Ethernet	2x 2.5Gbe RJ45	
PCI Express	1x PCIe x16 slot (x8 signal) 2x M.2 M key 1x M.2 B key 1x M.2 E key	
Display	Default	Options
	DDI	1x DP, 2x Type-C
	LVDS/eDP	1x LVDS/eDP
Legacy I/O	GPIO	8x GPIO
	I <sup>2</sup> C	I <sup>2</sup> C header
	SMBus	SMBUS header
	UART	2x UART (Tx/Rx)
	GP SPI	N/A
Others	Audio jack 2x FAN (1x support PWM control) 12v DC Jack	

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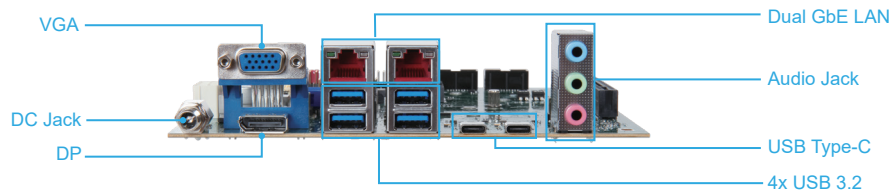
## MECHANICAL & ENVIRONMENT

Dimension	Mini-ITX 170mm x 170mm
Power DC IN	ATX 8 pin DC Jack
Storage Temperature	-40°C to 85°C
Operation Temperature	0°C to 60°C -40°C to 85°C (Selected SKU)
Certification	TBD
MTBF	TBD
Vibration	TBD

## ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-C605R	AB1-3P78Z	in development
Accessory	Ordering P/N	Status
COM port cable	TBD	in development
SATA power cable	TBD	in development

## REAR I/O



## BLOCK DIAGRAM

### PCOM-C605R

