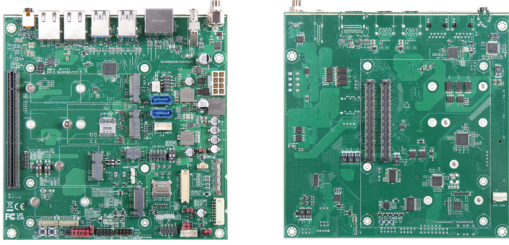


# PCOM-C605R

Mini-ITX size carrier board for COM Express Type6 module



## FEATURES

- Support COM Express Type6 Compact/Basic size modules
- Mini-ITX size 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
- Support wide temperature -40°C ~ 85°C
- ATX 8pin 12v power input / DC Jack 12v power input



Portwell PCOM-C605R is a Mini-ITX size carrier board that supports reverse mounting of COM Express Type6 module. It follows COM Express Rev 3.1 standard, supporting multiple I/O interfaces, including DP display, VGA, PCIe, M.2, RJ45, USB 3.2(Type-A), SATA, UART and Audio jack. PCOM-C605R suitable as a solution for compact size system, which 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	2x USB 3.2 Gen2 Type-A port (Gen2 or Gen1 depend on module) 2x USB 3.2 Gen1 Type-A port (via USB Hub)	
Ethernet	2x 2.5 GbE 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	Interface source	Output options
	DDI	3x DP
	LVDS/eDP	1x LVDS connector 1x eDP connector
Legacy I/O	VGA	1x VGA header
	GPIO	8x GPIO header
	I <sup>2</sup> C	I <sup>2</sup> C header
	SMBus	SMBUS header
	Serial Port	2x UART header (module) 2x COM port header (SuperI/O)
Others	GP SPI	N/A
	1x Audio jack (4-pole CTIA) 2x FAN (1x support PWM control) 12v DC Jack	

# PCOM-C605R

## 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	-40°C to 85°C
Certification	TBD
MTBF	TBD
Vibration	TBD

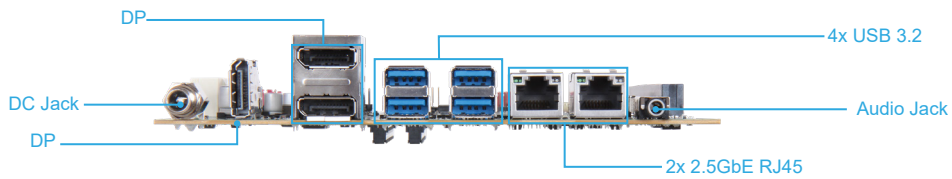
## ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-C605R-WT	AB1-3S09	Available

Accessory	Ordering P/N	Status
COM port cable	B786T840	Available
VGA cable	B7864720	Available
SATA power cable	B786G991	Available

## REAR I/O



## BLOCK DIAGRAM

### PCOM-C605R

