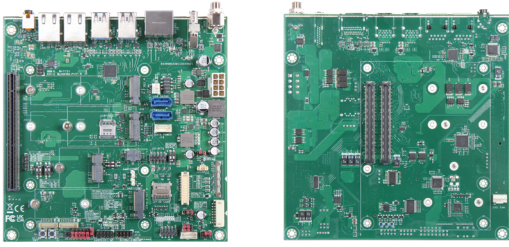


PCOM-C605R

Mini-ITX size carrier board for COM Express Type6 module



FEATURES

- COM Express carrier board for Type 6 Compact/Basic size modules
- Mini-ITX size provides extra expansion slots, 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
- Supports wide temperature -40°C ~ 85°C
- ATX 8-pin 12V power input / DC Jack 12V power input



Portwell's PCOM-C605R is a Mini-ITX form-factor sized carrier board that supports reverse mounting of COM Express Type 6 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 is suitable as a solution for compact-size system design, which offers an effective next-generation product upgrade path for solutions previously supported by the Portwell PCOM-C605 carrier board.

General

Product	PCOM-C605R
Form Factor	Mini-ITX size (170mm x 170mm)
Supported Module	COM Express Type 6 , Compact and Basic sizes
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 sockets shared with PCIe	
USB	2x USB 3.2 Gen2 Type-A ports (Gen2 or Gen1 depend on module) 2x USB 3.2 Gen1 Type-A ports (via USB Hub)	
Ethernet	2x 2.5GbE RJ45	
PCI Express	1x PCIe x16 slot (x8 signal) 2x M.2 Key M 1x M.2 Key B 1x M.2 Key E	
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 ² C	I ² C header
	SMBus	SMBus header
	Serial Port	2x UART header (module) 2x COM port header (Super I/O)
Others	GP SPI	N/A
	1x Audio jack (4-pole CTIA) 2x Fan (1x support PWM control) 12V DC Jack	

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	In process
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

COM Express® Type 6
Mini-ITX 170x170mm

-40°C ~ 85°C

AT / ATX

12V input

