

## 2U 19" PANTHER Gen12/13/14 Series

Customizable industrial 2U 19-inch servers with Intel® Core™ 14th/13th/12th Gen. CPU

**BRESSNER**  
A ONE STOP SYSTEMS COMPANY

### Features

- Intel® Core™ 14th/13th/12th Gen. i9 / i7 / i5 / i3 processors
- Up to 64GB DDR5 4800MHz memory
- Expandable via PCIe Gen5, Gen4 and Gen3 slots
- Multiple displays via DVI-D, DisplayPort and HDMI Port
- Supports onboard TPM 2.0
- Dimensions (W x D x H): 431.4 x 429.2 x 88.6mm

CUSTOMIZABLE



### 2U 19" PANTHER Gen12/13/14 Series – High availability, flexible expansion interface and low space requirements

The 2U 19" PANTHER Gen12/13/14 series consists of powerful and reliable 19-inch servers designed specifically for use in industrial environments. The devices include the industrial mainboard ROBO-8116G2AR, based on the Intel® R680E chipset, which provides a modern platform for demanding applications.

The industrial PCs feature Intel® Core™ 14th / 13th / 12th Gen. processors, which together with up to 64GB DDR5 memory offers impressive computing power. The 19-inch chassis are made of rugged aluminum and are equipped with various expansion slots and ports. These include Gigabit Ethernet, USB 3.2, DVI-D, HDMI and DisplayPort. In addition, the server offers space for up to four SATA III ports and a variety of PCIe/PCI slots.

The 2U 19" PANTHER Gen12/13/14 series is designed for 24/7 operation and is ideal for use in demanding applications such as control systems, monitoring and surveillance systems, data acquisition and processing, and other industrial server rack applications.



# 2U 19" PANTHER Gen12/13/14 Series

Customizable industrial 2U 19-inch servers with Intel® Core™  
14th/13th/12th Gen. CPU

Specifications	Entry Line	Basic Line	Pro Line	Ultra Line
<b>SYSTEM</b>				
CPU	Intel® Core™ i3-13100 or Intel® Core™ i3-12300	Intel® Core™ i5-13500 or Intel® Core™ i5-12500	Intel® Core™ i7-13700 or Intel® Core™ i7-12700	Intel® Core™ i9-13900 or Intel® Core™ i9-12900
Chipset	Intel® R680E			
Mainboard	Portwell ROBO-8116G2AR			
RAM	8GB DDR5 4800MHz max. 64GB	16GB DDR5 4800MHz max. 64GB	32GB DDR5 4800MHz max. 64GB	64GB DDR5 4800MHz max. 64GB
Storage	4x SATA Gen 3.0, up to 6GB/s, supports RAID 0,1,5,10 2x 2.5"/3.5" SATA HDD/SSD trays Incl. 1x 500GB M.2 SSD	4x SATA Gen 3.0, up to 6GB/s, supports RAID 0,1,5,10 2x 2.5"/3.5" SATA HDD/SSD trays Incl. 1x 1TB M.2 SSD	4x SATA Gen 3.0, up to 6GB/s, supports RAID 0,1,5,10 2x 2.5"/3.5" SATA HDD/SSD trays Incl. 1x 1TB M.2 SSD	4x SATA Gen 3.0, up to 6GB/s, supports RAID 0,1,5,10 2x 2.5"/3.5" SATA HDD/SSD trays Incl. 1x 2TB M.2 SSD
TPM	Onboard TPM 2.0			
Expansion	From CPU: 1x PCIe 5.0 x16 or 2x PCIe 5.0 x8 and 1x PCIe 4.0 x4 configuration (Gen5 up to 32GT/s) From PCH: 1x PCIe x4 or 4x PCIe x1 via diverse BIOS support(Gen3 up to 8GT/s), 4x PCI devices at 32-bit 33MHz 1x M.2 M-Key 2280 (backplane bottomsides)			
Operating System	Windows®: 11 / IO IoT Enterprise LTSC 64-bit			
<b>INTERFACE</b>				
Ethernet	2x 10/100/1000/2500 Mbps RJ-45 port (Intel® WGI225LM)			
USB	2x USB 3.2 Gen2 ports (via bracket) 2x USB 3.2 Gen1 ports (via board) 1x USB 3.2 Gen2 x2 Type C ports (via bracket) 4x USB 2.0 Ports (backplane) 2x USB 2.0 Ports (front)			
COM	2x RS-232 ports via bracket (optional) 2x RS-232/422/485 via bracket (optional)			
Video	1x HDMI 1x DVI-D 1x DisplayPort			
Other	1x DVD-ROM drive			
<b>ENVIRONMENTAL</b>				
Chassis	2U 19-inch rackmount			
Cooling	1x 700mm front fan (with filter)			
Power Adapter	Incl. 500W power supply			
Remote Control & LED	Front panel power On/Off, system reset Front panel ports 2x USB 2.0 Front panel display power status LED Rear slots 6x full profile full height			
Dimensions	431.4 (W) x 429.2 (D) x 88.6 (H) mm			
Weight	Approx. 18kg (fully equipped system)			

\*All PANTHER 2U 19" PANTHER Gen12/13/14 Series series systems can be customized to meet your needs, if necessary.