

POWERBRICK XS - PBXSG1

SPECIFICATION SHEET

Version 1.3



*Exceptional Power. Relentless Dependability. Wherever You Need It.
Engineered in Canada for the World's Toughest Demands.*



OVERVIEW:

Introducing the Acura **PowerBrick XS**, our next generation fully sealed IP65 fanless industrial PC, meticulously designed and manufactured in Canada to redefine rugged computing. Built for the most extreme environments, the PowerBrick XS delivers uncompromising performance and seamless integration, making it the ideal computing unit for mission-critical applications where reliability cannot be compromised.

Cutting-Edge Processing:

Featuring the Intel Core Ultra 5 125H or Ultra 7 165H processor, the PowerBrick XS delivers efficient, multi-threaded performance for data-intensive tasks and complex applications.

Blazing Fast Memory & Storage:

Power your operations with up to 64GB DDR5 RAM and expansive storage options up to two 4TB SSDs with RAID control for ultimate data integrity.

Extreme Temperature Ready:

Operates flawlessly across a wide temperature range from -40°C to +60°C, ensuring dependable performance in the harshest climates, from scorching deserts to freezing Canadian winters.

Vehicle Ready:

With a 9-36V DC input and an optional vehicle ignition start, the vibration resistant PowerBrick X can be used for rugged in-vehicle deployments, powering on automatically with your fleet.

Fanless:

Our patented passive cooling aluminum alloy chassis and the fanless design ensures silent, reliable 24/7 operation without moving parts.

IP65 Waterproof:

Ready for extreme full outdoor use. Tested and certified for IP65 dust resistance and fully washable.



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SYSTEM	
Processor	Intel Core Ultra 5 125H (Meteor Lake) Intel Core Ultra 7 165H Optional
Storage	Up to 4TB M.2 NVME SSD Optional 2 nd SATA SSD up to 4TB (RAID 0, 1 Configurable)
Memory	Up to 64 GB DDR5 RAM
Power Input	9-36V DC (Vehicle Ignition Optional)
Operating System	Windows 10 IoT, 11 IoT, 11 Pro, or Linux
Graphics	Intel® Arc™

I/O	
Video	1 x HDMI, 1 x VGA
LAN	2 x RJ45 GBE
USB	3 x USB 3.2
Serial	2 x RS232 or RS485
Wireless	WiFi 6E / Bluetooth (Intel AX210) 4G / 5G / LTE / GPS Optional
Audio	Built in Speaker

ENVIRONMENTAL	
Operating Temp	-40°C to +60°C (-40°F to +140°F)
Storage Temp	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	< 95% Non-condensing
Ingress Protection	IP65 - All Sides NEMA 4x Washable
Certifications	CSA, UL, FCC, UKCA
HazLoc Certifications	ATEX, C1D2, C1Z2

MECHANICAL	
Mounting	Wall Mount Support
Weight	2.72kg (6 lbs)
Dimensions (W x H x D)	316mm x 74mm x 165mm 12.4" x 2.9" x 6.5"
Construction	Aluminum Alloy

MODEL NUMBERS	
Standard	PBXSG1
HazLoc	PBXSG1-Z2



BUMPER TO BUMPER

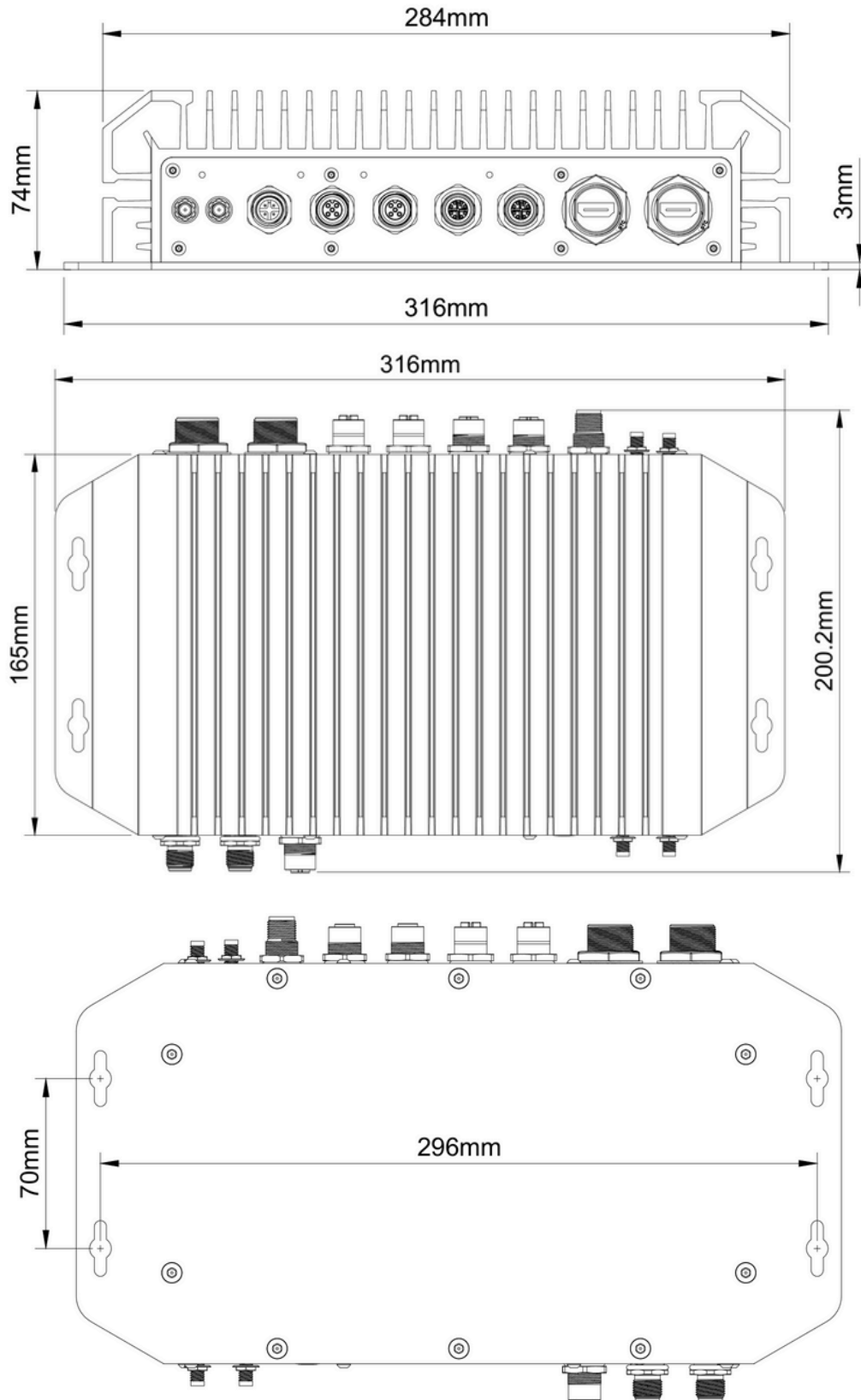
3 YEAR PRODUCT WARRANTY

Although our systems are built for extreme environments and outcomes, they can still be damaged. We understand accidents happen on the field and are here to ensure the reduction of your operational downtime.

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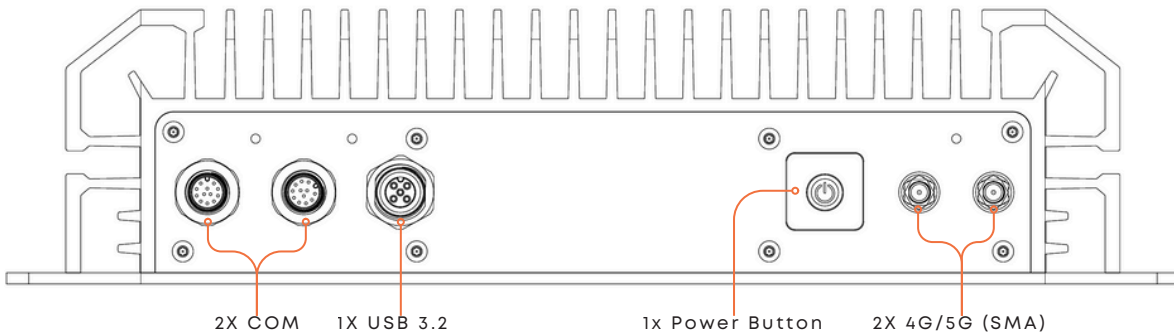
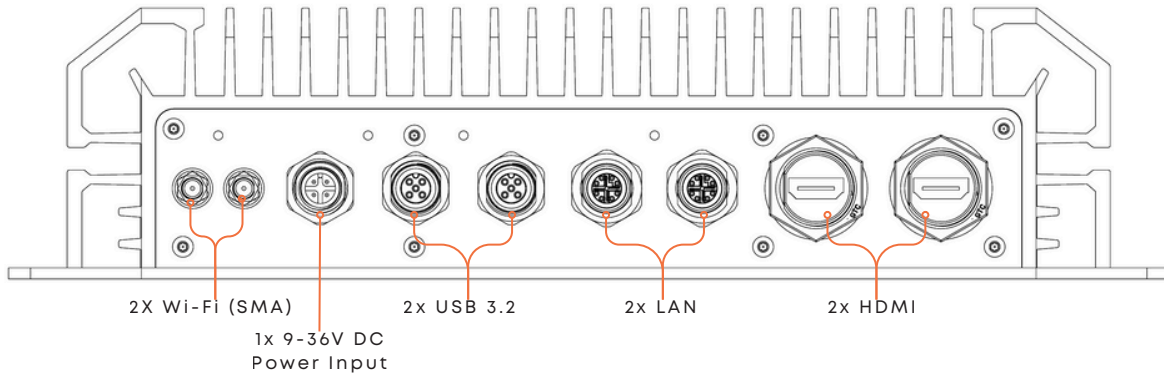
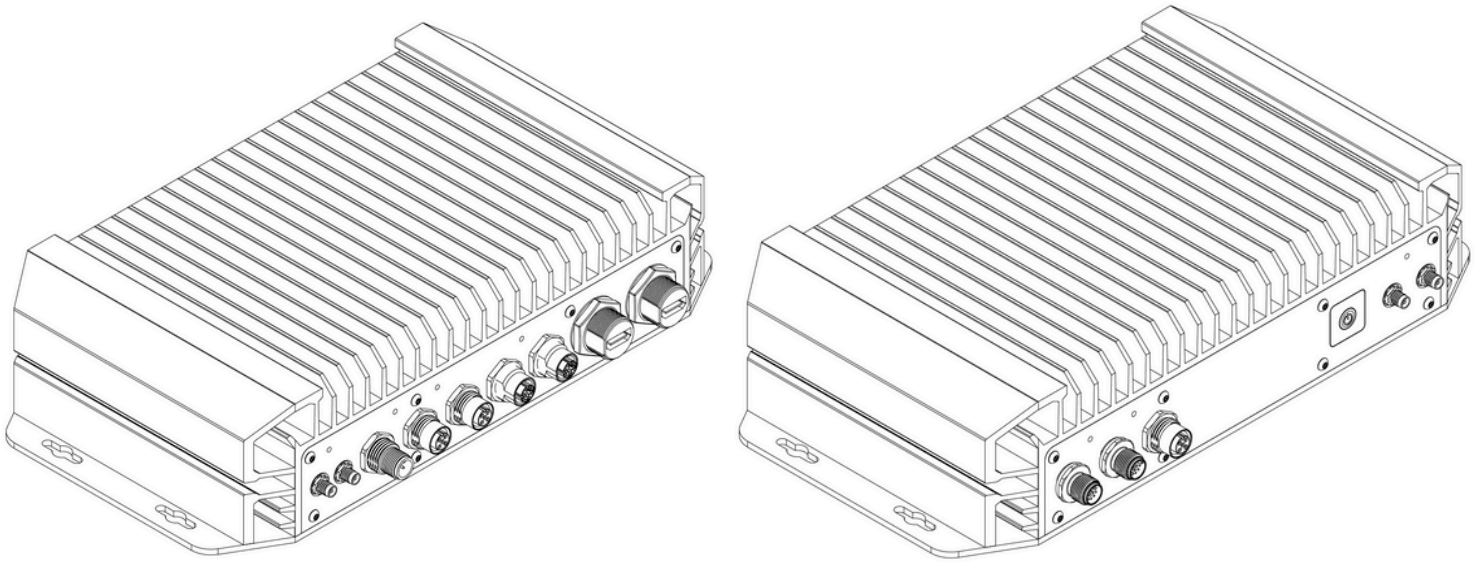
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For more information about Acura Embedded Systems' history, products, and solutions, visit us at

ACURAEEMBEDDED.COM

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