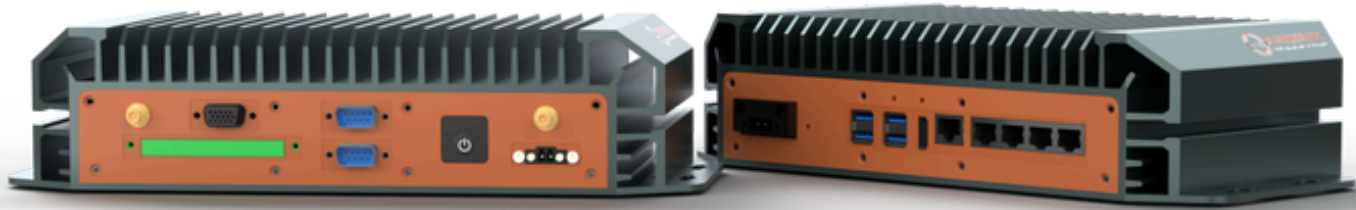


# POWERBRICK X - PBXG1

## SPECIFICATION SHEET

Version 1.2



*Unmatched Performance. Unyielding Reliability. Anywhere.  
Engineered in Canada for the World's Toughest Demands.*



## OVERVIEW

Introducing the Acura **PowerBrick X**, our next-generation fanless industrial PC, meticulously designed and manufactured in Canada to redefine rugged computing. Built for the most extreme environments, the PowerBrick X 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 7 165H processor (16 Cores / 22 Threads, 3.8 GHz), the PowerBrick X 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 4TB SSD 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 9-36V DC input with 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

### Optional Power over Ethernet (PoE):

Streamline your vehicle setup with 4 optional PoE ports, capable of powering dash cameras and other peripherals directly from the unit.



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SYSTEM	
Processor	Intel Core Ultra 7 165H (Meteor Lake)
Storage	Up to 4TB NVME, additional SATA up to 4TB
RAID	Optional
Memory	Up to 64 GB DDR5 SODIMM RAM
Power Input	9-36V DC Input (Vehicle Ignition optional)
Operating System	Windows 11 IOT LTSC
Graphics	Intel® Arc™ graphics

I/O	
Video	1x HDMI, 1x VGA
LAN	1x LAN, 4 POE
USB	4x USB 3.2
Serial	2x RS232/485
Wireless	WiFi 6E AX210/BT, 4G/5G/LTE/GPS (optional)
Audio	1x Line out, 1x Mic
GPIO	Optional

ENVIRONMENTAL	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	<95% RH
Certifications	CSA, UL, CE, FCC
HazLoc Certifications	ATEX, C1D2, C1Z2

MECHANICAL	
Mounting	Wall mount support
Weight	5.5 LBS, (2.49 KG)
Dimensions (WxHxD)	316mm x 72mm x 145mm 12.44 in x 2.83 in x 5.71 in
Construction	Aluminum Alloy

MODEL NUMBERS	
Standard	PBXG1
HazLoc	PBXG1-Z2



## BUMPER TO BUMPER

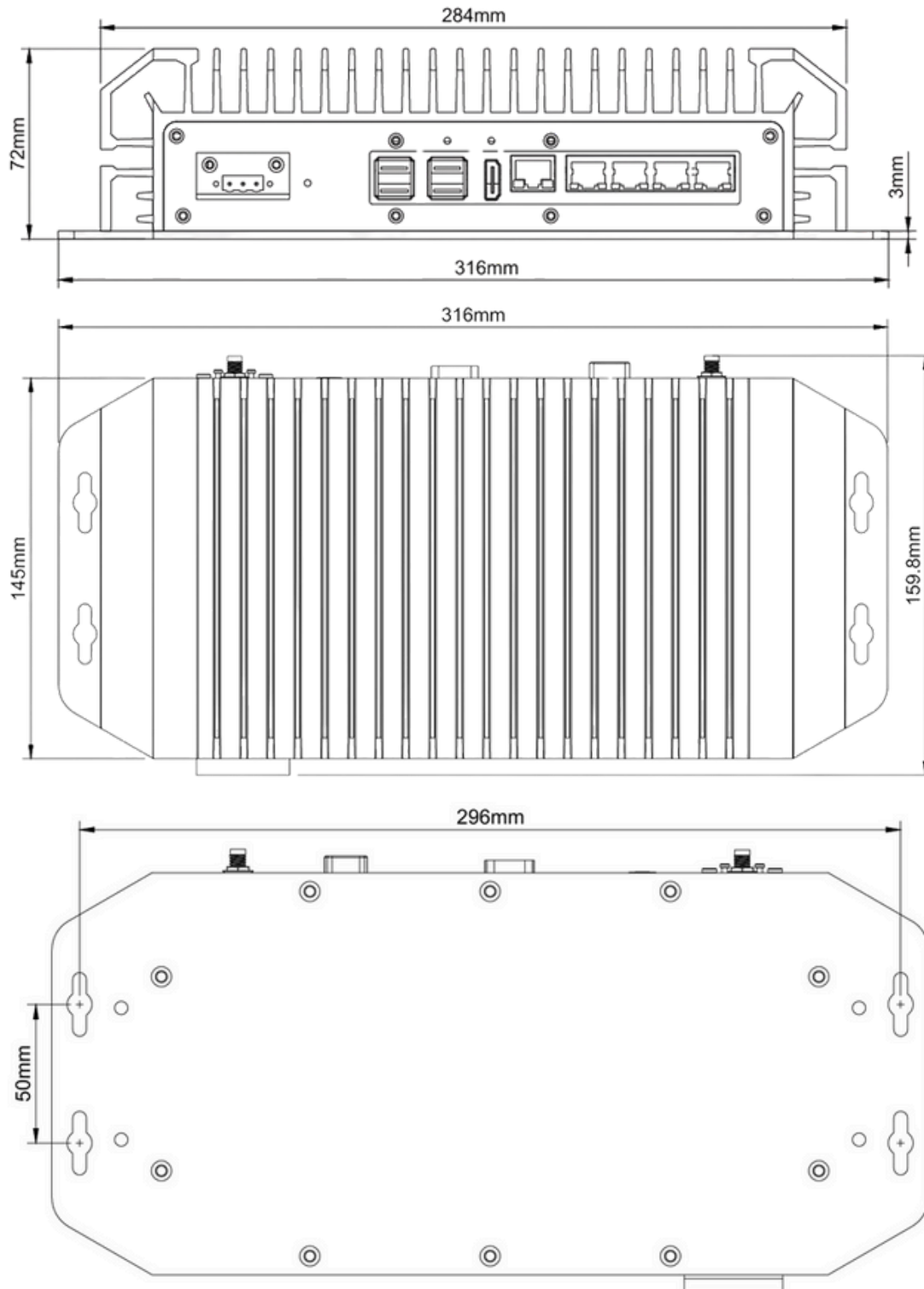
### 3 YEAR PRODUCT WARRANTY

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.

# POWERBRICK X - PBXG1

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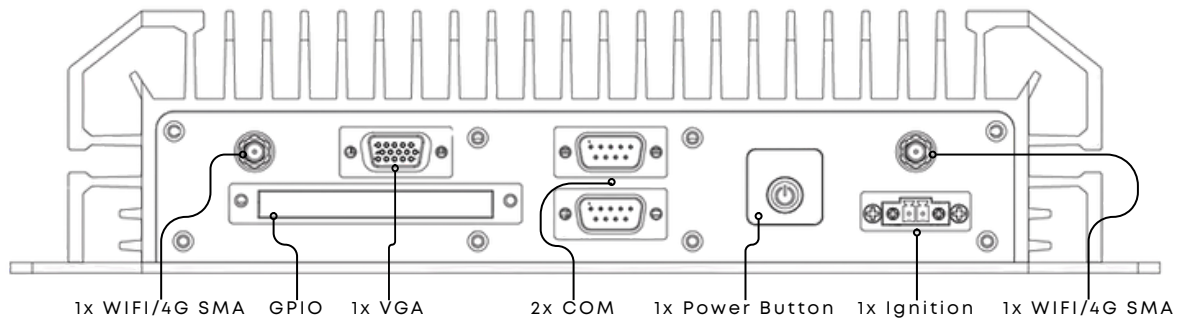
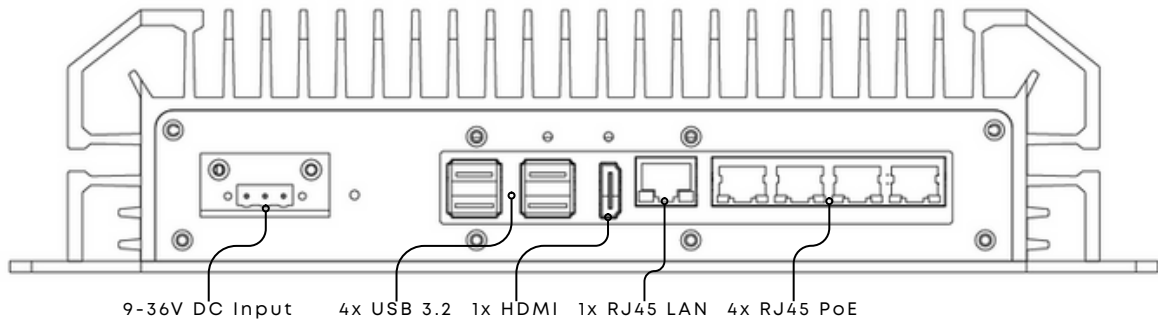
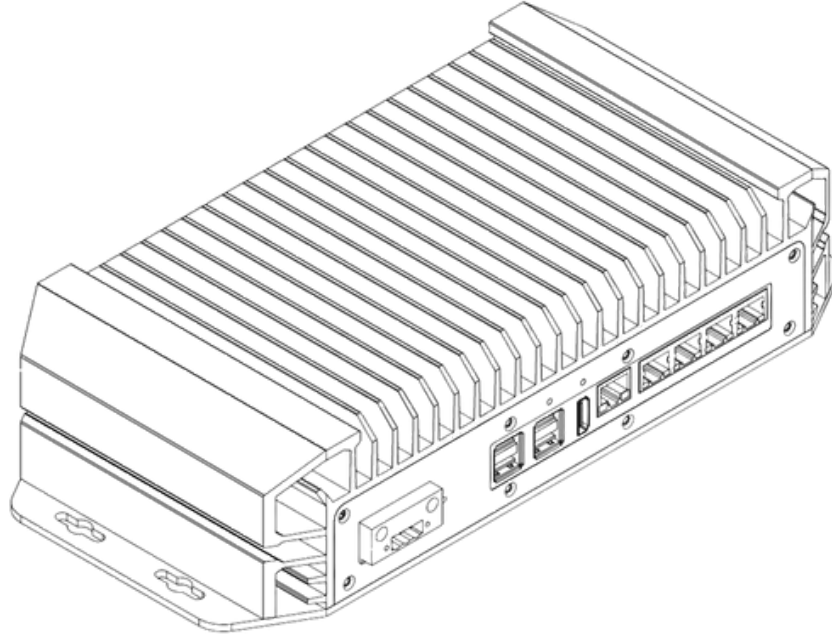
Version 1.2



# POWERBRICK X - PBXG1

## SPECIFICATION SHEET

Version 1.2



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