

# M300-Xavier

*Embedded Robotic Controller Powered by NVIDIA® Jetson AGX Xavier™*

## Features

- ROS2-enabled robotic controller powered by NVIDIA® Jetson AGX Xavier™ module
- 1x USB 3.1 Gen2 + 6x USB 3.1 Gen1, MIPI CSI for camera connections
- Field control I/Os: UART, SPI, CAN, I<sup>2</sup>C, PWM, analog inputs, digital inputs/outputs
- Internal function expansions by mini PCIe, M.2 E key 2230, M.2 B+M key 3042/2280
- Optional external function expansions by ruggedized cassette, 1x PCIe Gen4 x8, 1x PCIe Gen3 x4
- 9-36V DC input

Preliminary



## Specifications

	M300-Xavier
<b>System Core</b>	
Processor	NVIDIA® Jetson AGX Xavier™
Memory	Onboard 16GB
eMMC	32GB on module
<b>Graphic Output</b>	
Graphic Output	1x HDMI
<b>Front Panel I/O Interface</b>	
Ethernet	2x GbE
USB 3.1 GEN2	1
USB 3.1 GEN1	6
Serial Port	1x RS-232/485 + 3x RS-232
<b>Side Panel I/O Interface</b>	
GPIO	20 bit
Other Control Signals	UART, SPI, CAN, I <sup>2</sup> C, PWM
<b>Storage Device</b>	
M.2 Extension	1x Key B+M 3042/2280
SD Card	1x MicroSD
<b>Optional Expansion</b>	
Expansion Cassette	Optional 1x PCIe x8 + 1x PCIe x4
<b>Power Requirements</b>	
DC Input	9-36V
AC Input	Optional 280W adapter
Fail Reset	Recovery / Reset
Power LED Indicator	Storage / WDT
<b>Mechanical</b>	
Dimensions	Core module: 190 (W) x 210 (D) x 80 (H) With expansion: 322 (W) x 210 (D) x 80 (H)
Weight	5 kg
Mounting	Wall mount
<b>Environmental</b>	
Operating Temperature	0°C ~ +50°C
Operating Humidity	~95% @40°C (non-condensing)
Storage Temperature	-40°C ~ +85°C