Aerocore 2 for NVIDIA® Jetson™
Product datasheet

PKG900000000691   *USD275.00*

AEROCORE 2 FOR NVIDIA® JETSON™

The Aerocore 2 for NVIDIA Jetson puts the parallel processing power of NVIDIA's CUDA cores on a robotics-inspired development board.

The Gumstix Aerocore 2 platform is a tried and true blend of real-time autopilot firmware and high-level processing capabilities, employing an ARM Cortex M4 microcontroller, PX4 firmware, PWMs, serial buses, and GPS along with powerful Linux devices.

Featuring 4 camera connectors, a display port, and USB 3.0, the Aerocore 2 for Jetson is ready to take advantage of the Jetson TX1 and TX2's 256 CUDA cores for computer vision, object identification, AI and deep learning edge applications.

Product Features

Mating connector

2 ×   U.FL Connector

What's included

1 ×   AeroCore 2 for NVIDIA Jetson

Key component

1 ×   USB Micro AB Connector
1 ×   Micro HDMI (Type D)
2 ×   Micro B USB Plug
1 ×   JST-XH Top 3Pos 2.5mm
1 ×   DF13 Top 5Pos 1.25mm
1 ×   USB3.0 Standard A Jack THRU-HOLE Vertical
1 ×   Intel Joule CSI Camera (JCAM) Connector
3 ×   DF30 Series 24 Position Dual Row 0.4 mm SMT Board to Board Receptacle
1 ×   Magnetic Buzzer SMT (5V 30mA 92dBA)
1 ×   Texas Instruments SN65HVD232 CAN Transceiver
1 ×   FTDI FT232RQ USB UART Interface
1 ×   ST L3GD20H 3-Axis Gyroscope
1 ×   Memory (SPI FRAM 1MB 1.8V)
1 ×   Memory (256Kb I2C Serial Board EEPROM)
1 ×   MS5611 Barometric Sensor
1 ×   LSM303D 6-Axis Accelerometer

Product links

- Customize in Geppetto
- Technical Specifications
- User Manual
- Geppetto®Workspace

Input/output		
4-Pin Header	2x2, 0.1" Male Pin Header.	
6-Pin Header	2x3, 0.1" Male Pin Header.	
Robotics		
Accelerometer	6-axis internal measurement unit (IMU)	
Barometer	Barometric pressure sensor	
Controller Area Network (CAN)	For use in applications employing the CAN serial communication physical layer in accordance with the ISO 11898 standard.	
Gyroscope	3-axis gyroscope	
Camera		
Camera Connector	MIPI CSI-2 Camera Connector	
General		
5-pin GPS Connector	UART connection for Gumstix Pre-GO modules	
HDMI	micro HDMI	
Processor		
Processor	ARM Cortex-M4 Microcontroller	
Usb		
USB Device	Micro B USB Plug	
USB OTG	USB Micro-AB Connector	