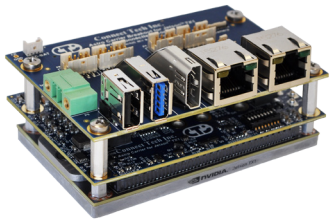
Connect Tech Inc.

Embedded Computing Experts

NVIDIA® Jetson™ TX1 Carrier Boards - Comparison Chart

Name	Astro Carrier	Elroy Carrier	Orbitty Carrier
Shown with NVIDIA® Jetson™ TX1 installed			
Part Number	ASG001 w/ XBG201	ASG002	ASG003
Dimensions	87mm x 57mm (3.43" x 2.24")	87mm x 50mm (3.425" x 1.968")	87mm x 50mm (3.425" x 1.968")
Mini-PCIe/mSATA	1x half size card or 1x full length card PCIe and USB signalling (Mini PCIe)	1x Mini-PCIe/mSATA half or full size (use of full size removes secondary Mini PCIe slot)	N/A
SATA	1x SATA Link	1x mSATA half or full size (use of full size removes secondary Mini PCIe slot)	N/A
Display	1x HDMI	1x HDMI	1x HDMI
Serial	2x RS-232/RS-485	2x RS-232/RS-485	2x 3.3V UART through discreet connector
USB	1x USB 3.0, 2x USB 2.0	1x USB 3.0 (Integrated USB 2.0), 1x USB 2.0	1x USB 3.0, 1x USB 2.0 OTG
Ethernet	2x Gigabit Ethernet (10/100/1000)	1x Gigabit Ethernet (10/100/1000)	1x Gigabit Ethernet (10/100/1000)
Audio	HD Audio Link: 1x Output	1x HDMI Integrated Audio	1x HDMI Integrated Audio
SD Card	1x microSD	1x microSD	1x microSD
Video Inputs	1x CSI-2 (x2) interface, 2x CSI-2 (x4) interfaces via U.FL connector accepting GMSL signalling	2x 2-Lane (2x) MIPI CSI 2.0	N/A
Misc	1x I2C Link 1x System Control (PWR and RST buttons, etc.), 1x RTC Battery Input, 4x GPIO	1x I2C Link, 1x SPI Link, 1x System Control (PWR and RST buttons, etc.), 1x RTC Battery Input, 4x GPIO	I2C, 4x GPIO
Power Requirements	+9V to +36V Input	DC Input Range +12V DC Nominal Input	+9V to +19V Input
Operating Temperature	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)

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