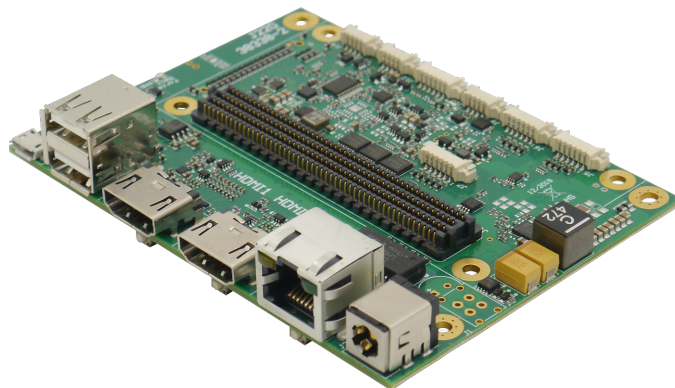


Carrier board for the NVIDIA® Jetson™ TX2



Jetson TX2

The NVIDIA Jetson TX2 System-on-Module redefines possibility; a combination of performance, power efficiency, integrated deep learning capabilities and rich I/O remove the barriers to a new generation of products.

- 6 processor cores (4x A57 + 2x Denver) @ 2.0GHz
- 256-core Pascal GPU @ 1.12GHz
- 8GB DRAM with 128 bit interface
- 32GB eMMC 5.1 flash

J220

The J220 is a carrier board is specifically designed for the integration in passively cooled enclosures.

- rugged design - no electrolytic capacitors
- extendable: up to 6x CSI-2 ports with 2 lanes and peripheral interface extension connectors (including PCIe x4 for M.2 daughter card)
- firmware compatible to the TX2 dev kit

Applications

- industrial AI computers
- digital signage systems
- drone mission controllers
- auto pilots

Carrier	J220	J220-LC
model	38338-2	38338-2
CPU module	NVIDIA Jetson TX2	NVIDIA Jetson TX2
display	2x HDMI 2.0 (4kp60)	1x HDMI 2.0 (2160p60)
CSI-2	6x CSI-2 (12 lanes on expansion connector)	-
USB 3.0	-	-
USB 2.0	3x (2x on USB type A and 1x on extension port)	2x USB type A
micro USB	1x (automatic flashing)	1x (automatic flashing)
network	1x GbE	1x GbE
POE	-	-
M.2 storage	optional via extension port (PCIe x4)	-
SATA	on extension port	-
UPS	optional supercap module	-
UART	UART0 and UART2 on JST GH , UART1 on extension port	UART0 and UART2
peripheral interfaces	2x CAN, MCU, SPI, GPIOs, I2S	CAN, MCU, GPIOs
fan	4 pin picoblade	4 pin picoblade
power	12V to 48V (53.3V max: TVS diode protection)	12V (13.3V max: TVS diode protection)
power connector	5.5/2.5mm or 4 pin Molex MicroFit 3.0 (optional)	5.5/2.5mm or 4 pin Molex MicroFit 3.0 (optional)
size	104.6mm x 80mm	104.6mm x 80mm
mounting holes	4x 3.2mm (M3)	4x 3.2mm (M3)
aluminum case	optional passively cooled enclosure	optional passively cooled enclosure
list price	€299 net (plus VAT)	€199 net (plus VAT)
status	in production	on request

X220-LC

Low cost version of the X220. Cost reduced by omitting a number of interfaces.

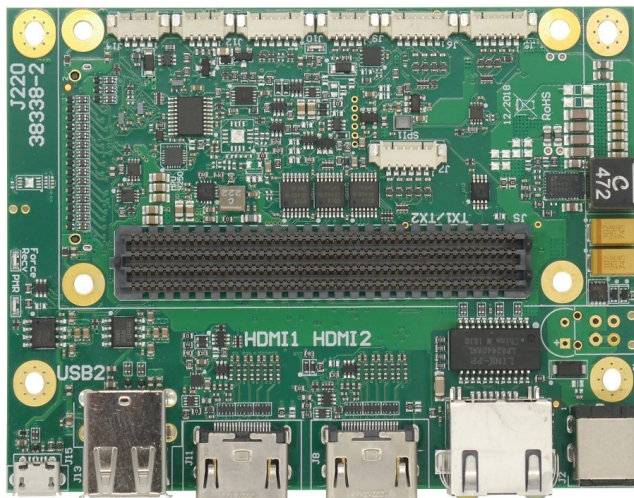
- only 1x HDMI
- no SATA
- no CSI-2 connector
- no expansion connector
- power in: 12V

Custom version

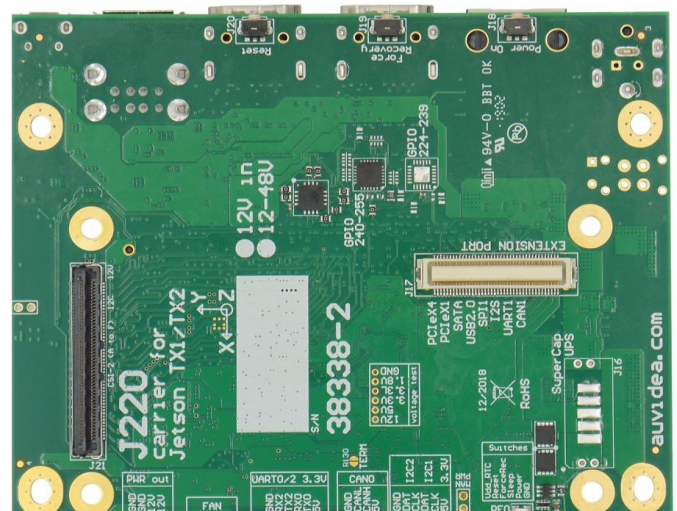
For quantities > 25 pieces a custom version of the J220 may be manufactured. Please ask for a quote based on your specification.

Design services

Auvideo can customize the J220 to create a full custom version with a custom form factor and custom interfaces.



J220: top side



J220: bottom side

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