

U101 / U102 / U104 expansion modules



Enabling LTE / 5G / Wifi / GNSS RTK

Overview

These expansion modules grant you the possibility to use different M.2 key B and key E cards. Enabling you to use LTE / 5G, Wifi, GNSS, etc. as shown in the table below.

Features

- Designed and manufactured in Germany
- Compatible with Linux/Windows/macOS
- Mounting holes (2.2mm)
- Easy integration into UAVs and robotics
- Custom design on request

Technical Specification

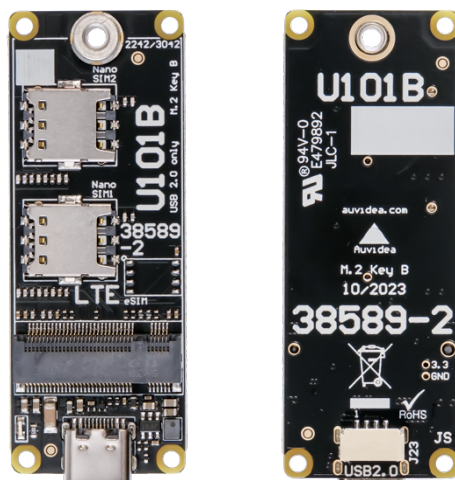
	U101B	U101E	U102	U104
M.2 key E	no	1x 2242 (2230)	1x 2230/2242	1x 2230 u. 2x 2242
M.2 key B	1x 2242/3042	no	1x 2242/3042	1x 2242/3042
Dual nano SIM	✓	no	✓	✓
eSIM	optional	no	optional	optional
LTE / 5G card	✓	✓	✓	✓
Wifi	✓ (USB2.0)	✓ (USB2.0)	✓ (USB2.0)	✓ (USB2.0)
JST-GH connector	✓	✓	✓	✓
GNSS (RTK)	✓	✓	✓	✓
LoraWAN	✓	✓	✓	✓
UBS-C	USB2.0 (5V)	USB2.0 (5V)	USB2.0 (5V)	USB2.0 (5V)
Size	23mm x 60.7mm	23mm x 60.7mm	30mm x 60.7mm	53mm x 60.7mm
Weight	ca. 7.4 grams	ca. 7.0 grams	ca. 10.9 grams	ca. 18.7 grams

Variants

SKU	Part	Number of M.2 slots
70303-B	U101 M.2 key B	1
70303-E	U101 M.2 key E	1
70304	U102 M.2 key B+ key E	2
70305	U104 M.2 key B + 3x key E	4

U101B

Top side Bottom side



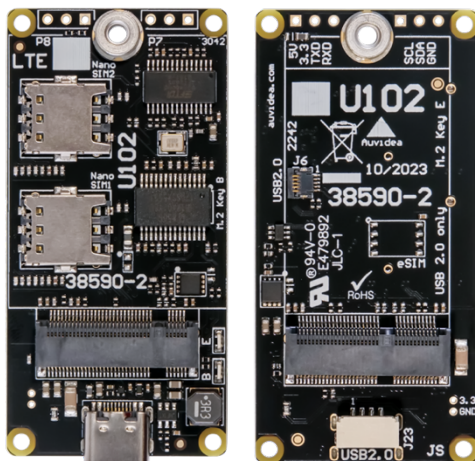
U101E

Top side Bottom side



U102

Top side Bottom side



Resources

3D model (STEP)	Link
U101B	https://auvidea.eu/download/step/38589-2.step.zip
U101E	https://auvidea.eu/download/step/38588-2.step.zip
U102	https://auvidea.eu/download/step/38590-2.step.zip
U104	https://auvidea.eu/download/step/38591-2.step.zip

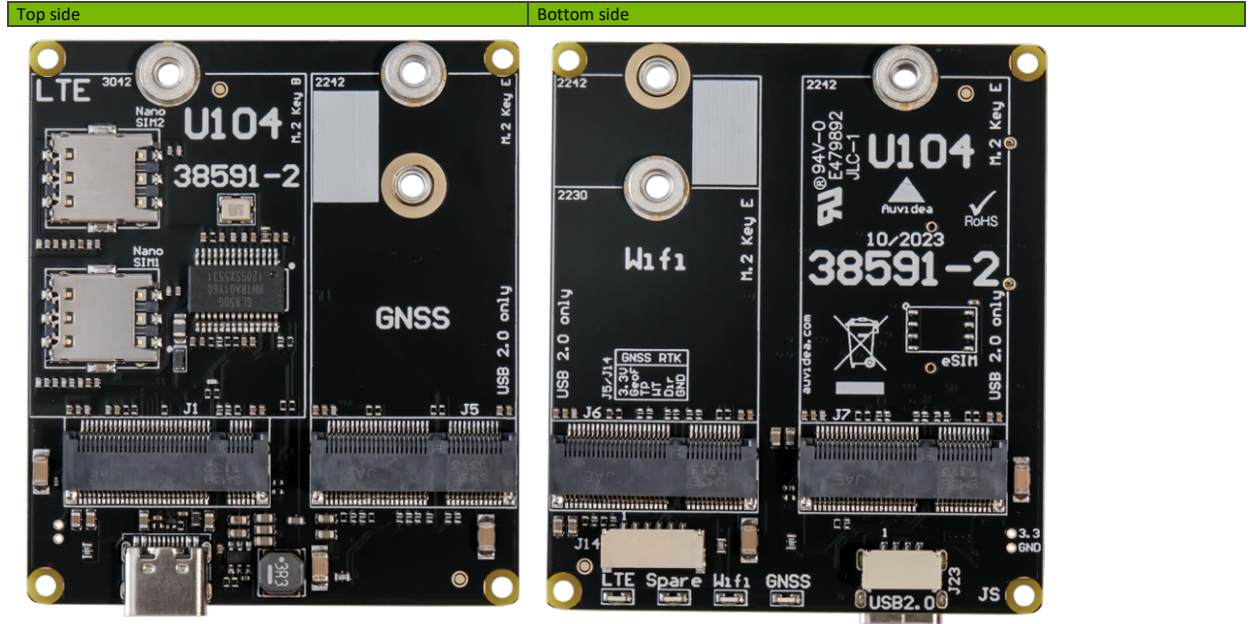


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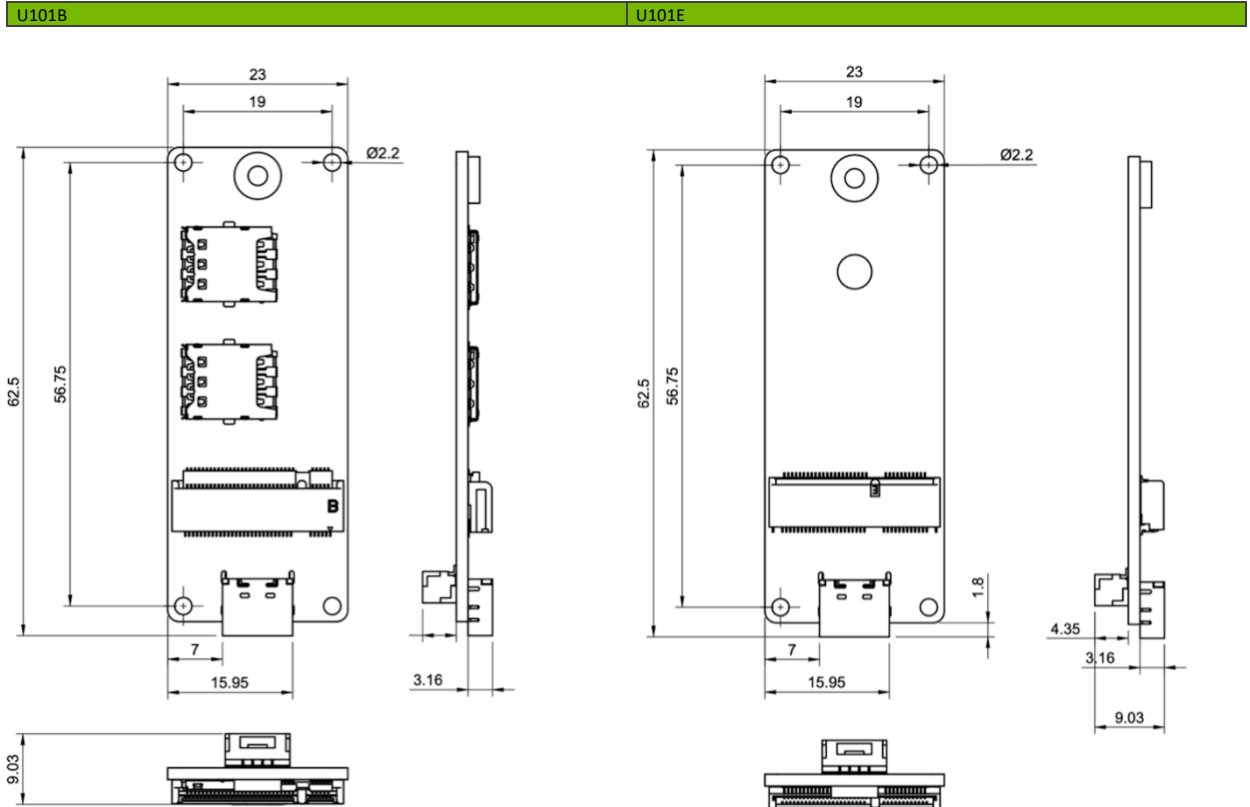
USB to M.2 converter

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U104



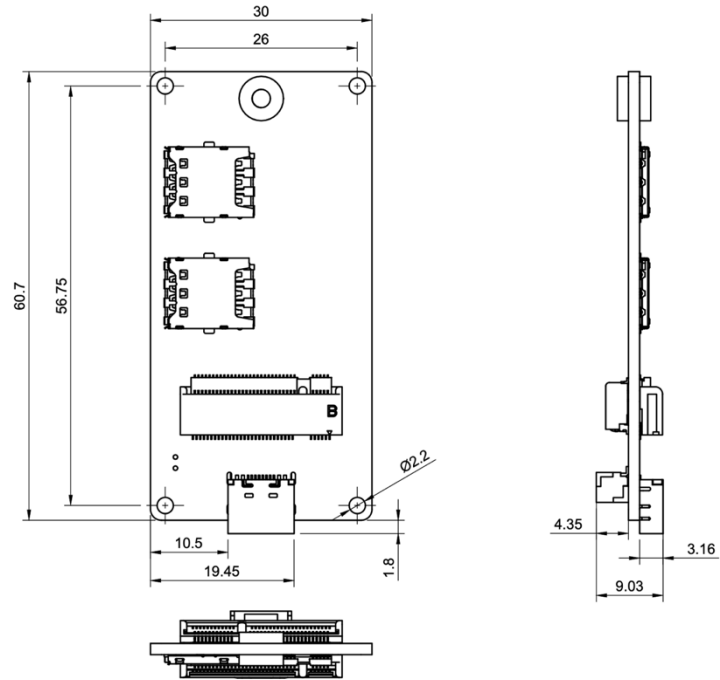
Technical Drawings



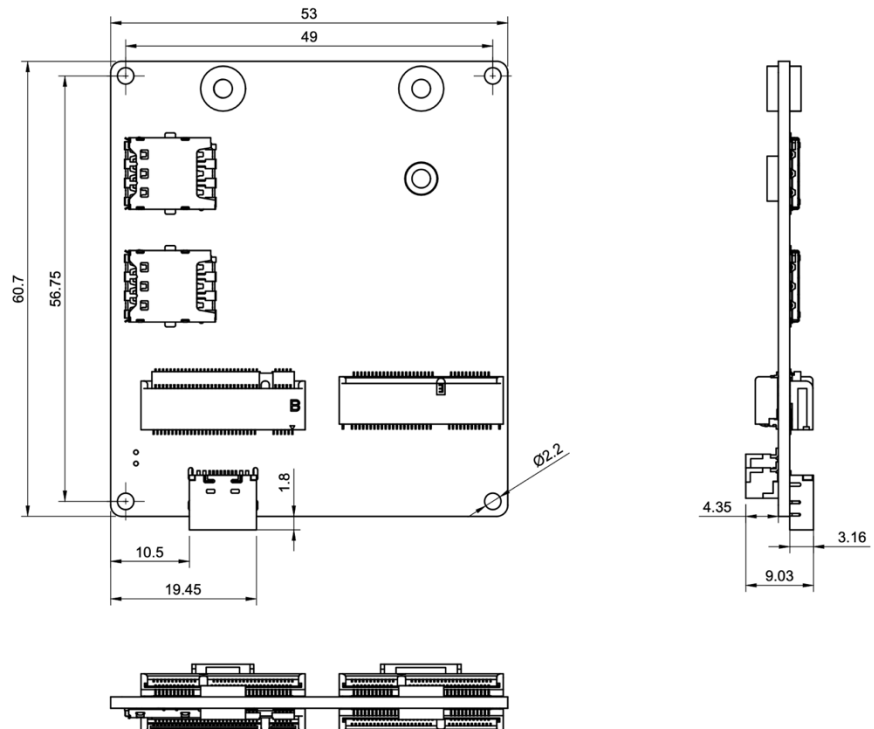
USB to M.2 converter

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U102



U104



Mouser Electronics

Authorized Distributor

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[70303-B](#) [70303-E](#)