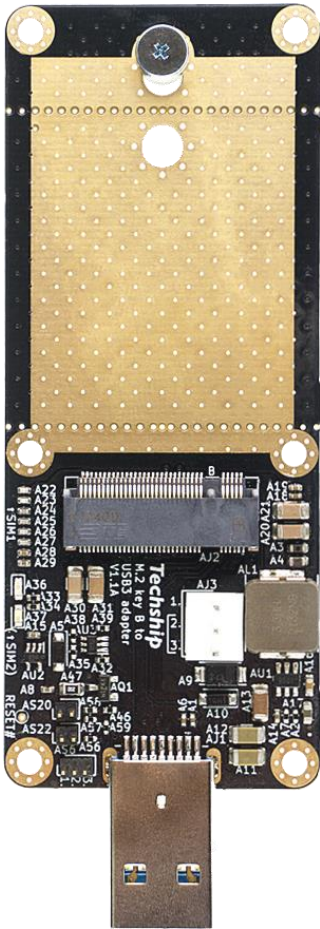


## TECHSHIP M.2 KEY B TO USB3 ADAPTER SERIES MU201

### DESCRIPTION



Jumpstart your cellular IoT development with Techship M.2 adapter series designed for 5G and 4G mobile broadband cellular data cards.

In-house designed by Techship engineering team for optimal hardware compatibility with M.2 cellular data cards and locally manufactured in Sweden for high-quality and flexible production.

Test and evaluate the first generation of 5G cellular data cards in your current system through a standard USB3 type A port or integrate the data card and adapter in your application for added cellular data connectivity.

#### Generic functionality tested on data card from series:

Telit	FN990A28, FN990A40, FN980, LN920, FN982m
Sierra Wireless	EM9191, EM7690, EM75xx, EM74x1
Simcom	SIM8262x, SIM8202, SIM8200, SIM79xx, SIM7600
Fibocom	FM150, NL668
Quectel	RM500Q, RM502Q

The Techship adapter is useful as a flexible and cost-effective development kit and a handy alternative to your own hardware platform and software environment during the cellular data card integration phase and for your products life-cycle maintenance.

### USECASE AND FEATURES

#### Typical use cases

- Testing and evaluation
- Software integration
- Troubleshooting
- Diagnostics
- Log capturing
- Firmware upgrades

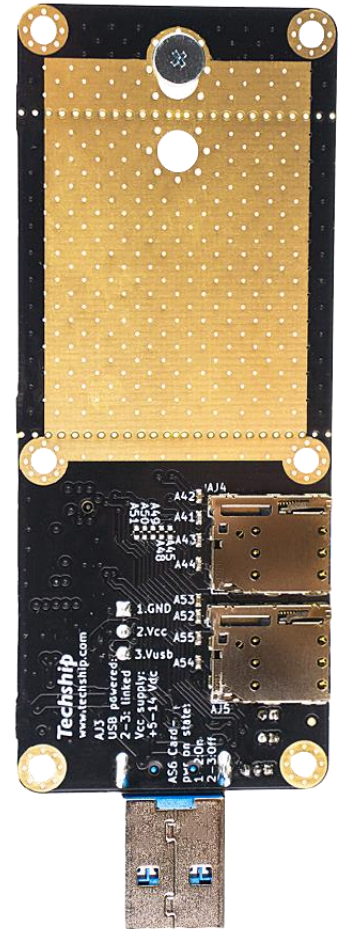
#### Key features

- Sturdy DC-DC step-down power supply circuitry
- Extra ceramic capacitors for improved voltage stability
- 5 to 14V DC external power supply input possible
- Thermal planes for heat dissipation with thermal pads
- Data interface selection jumpers (vendor specific)
- Discharge circuitry when USB plug power supply is turned off

## TECHSHIP M.2 KEY B TO USB3 ADAPTER SERIES MU201

### SPECIFICATIONS

Adapter Model	MU201
Article No	11318
<b>Dimensions</b>	
Width	36mm
Length	105mm (PCB: 89mm)
<b>Temperature range</b>	
Operational	-20°C to +75°C
<b>Slot-in card</b>	
Form factor	M.2 key B data card (67-pin)
Supported card lengths	42mm, 50mm, 52mm
Output voltage	+3.4V DC
Maximum output current	4000mA (with external power supply) ~2300mA (by USB3 type A plug supply) ~1200mA (by USB3 specification) ~650mA (by USB2 specification)
<b>SIM card interfaces</b>	
Type	4FF nano SIM card holder with card detect switch
Quantity	2x (Primary + Secondary)
<b>Control signal pin headers</b>	
Data interface selection (Vendor specific)	1x 1.27mm header, pull-up/down for pin 20 1x 1.27mm header, pull-up for pin 22
Full card power state	1x 1.27mm header, pull up/down for pin 6
<b>Indicator LEDs</b>	
Green LED	DC-DC power circuit enabled state
Blue LED	Wwan activity signal state
<b>External power supply input</b>	
Connector type	3-pin Molex KK254 2695 series
Voltage rating	Recommended: +5V to 14V DC Absolute min/max: +4.5V to 14.8V DC
Power rating	16W capable supply
<b>USB connector</b>	
Type	USB3 type A plug
Electrical rating	+5V DC (9W / 1800mA capable supply)
Signal interfaces	USB3, USB2
<b>Package content</b>	
Adapter	1x MU201
Distance	1x M3x2.5mm steel distance
Screw	2x M3x2mm steel screw
Pin header jumper	3x 1.27mm (for signal pin headers) 1x 2.54mm (for USB3 plug powered mode)
<b>Compliance</b>	
Environmental	RoHS, REACH
<b>Others</b>	
Country of origin	Sweden



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