



NCM-USB-E22 is a USB conversion module compatible with our camera modules. It is USB Video Class 1.1 compliant and supports YUV and Motion JPEG as output formats. FFC/FPC interface is available depending on the camera module to be connected.

1.Features

- USB Video Class1.1
- USB-bus power

2.Specification

- Dimension 20 × 36 [mm] ※1
- Output Interface USB2.0 (USB Video Class1.1 isochronous)
- Output Signal Format YUV, Motion JPEG
- Connection Type USB2.0 micro B connector

※1 : Micro B connector part is not included.

3. Recommended Operating Conditions

- Power supply voltage 5.0 [V] ※2
- Operating voltage range 4.75 ~ 5.25 [V] ※2
- Operating Temperature -20 ~ +60 [°C] ※3
- Storage Temperature -30 ~ +70 [°C] ※3
- Supported OS Windows7, Windows8, Windows10 ※4

※2 : USB-bus power.

※3 : No condensation.

※4 : Linux and embedded OS are not supported.

4. Terminal Description

- Input Interface
 - Terminal pitch : 0.5mm
 - Contact : Upper contact
 - 22 pin connector : 22FKZ-SM1-GAN-1-TB (LF)(SN)
- Output Interface
 - USB2.0 micro B connector

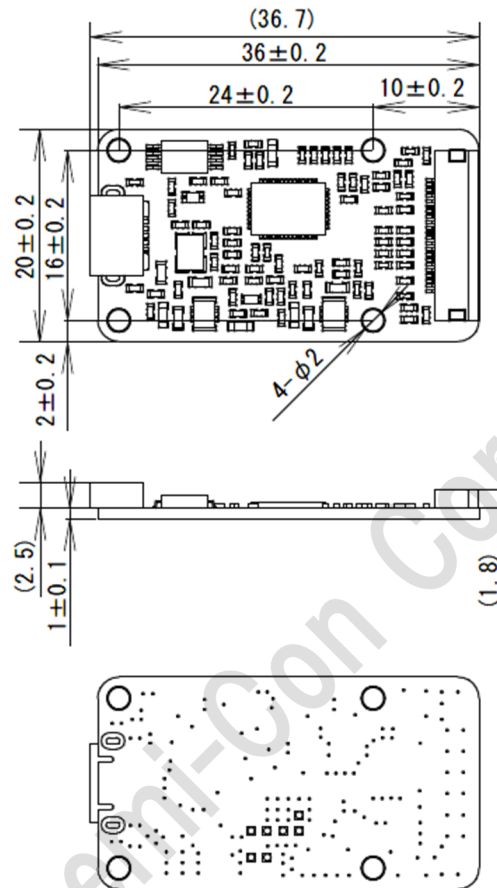
No	Symbol	I/O	Terminal Description
1	VBUS	-	USB-bus power supply
2	D-	I/O	USB data output (-)
3	D+	I/O	USB data output (+)
4	N.C.	-	Unconnected
5	GND	-	Ground

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5. External Dimensions

[Unit : mm]



NCM-USB-E22

※The mounted chip components are less than 2.45 mm high at the USB connector.

6. Product Model Number List

USB conversion module	Camera module
NCM-USB-E22A	NCM10-B
NCM-USB-E22D	NCM12-FC series
NCM-USB-E22F	NCM03-DSA NCM03-DV

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