

EDGE DATASHEET

A Low-Resolution Dual Vision Module

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Contributor	Mia Liu
Check	Vincent Wien
Approver	Victor Li

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1. System Overview

The major parameter can be found in the table below.

Module	Sensor Type	Dual Vision Module
	Available Spectrum	8-14 μ m
	Resolution	160 (H) \times 120 (V)
	Pixel Size	17 μ m
	Maximum Frame Rate	Up to 25 Hz
	Typical Target Temp.	-10~150 $^{\circ}$ C
	Target Temp. Range	-20~500 $^{\circ}$ C
	Maximum Temp. Range	-40~1000 $^{\circ}$ C
Environment	Working Environment Temp.	10~35 $^{\circ}$ C
	Storage Environment Temp.	-40~85 $^{\circ}$ C
Interface	Power Supply	5.0V (Not exceed 5.5V)
	Power Consumption	TBD
	Signal Interface	USB/UART/DVP/MIPI
	Output	Image) /Temp. Array
Layout	Size	54 x 44 x 29.22 (mm)
	Thermal FOV (Field Of View)	(D) 60.6 $^{\circ}$
	CIS FOV	(D) 108.4 $^{\circ}$



2. Mechanical Specification

The size of the Edge can be seen from the figure 1.
The 3D rendering from the figure 2.

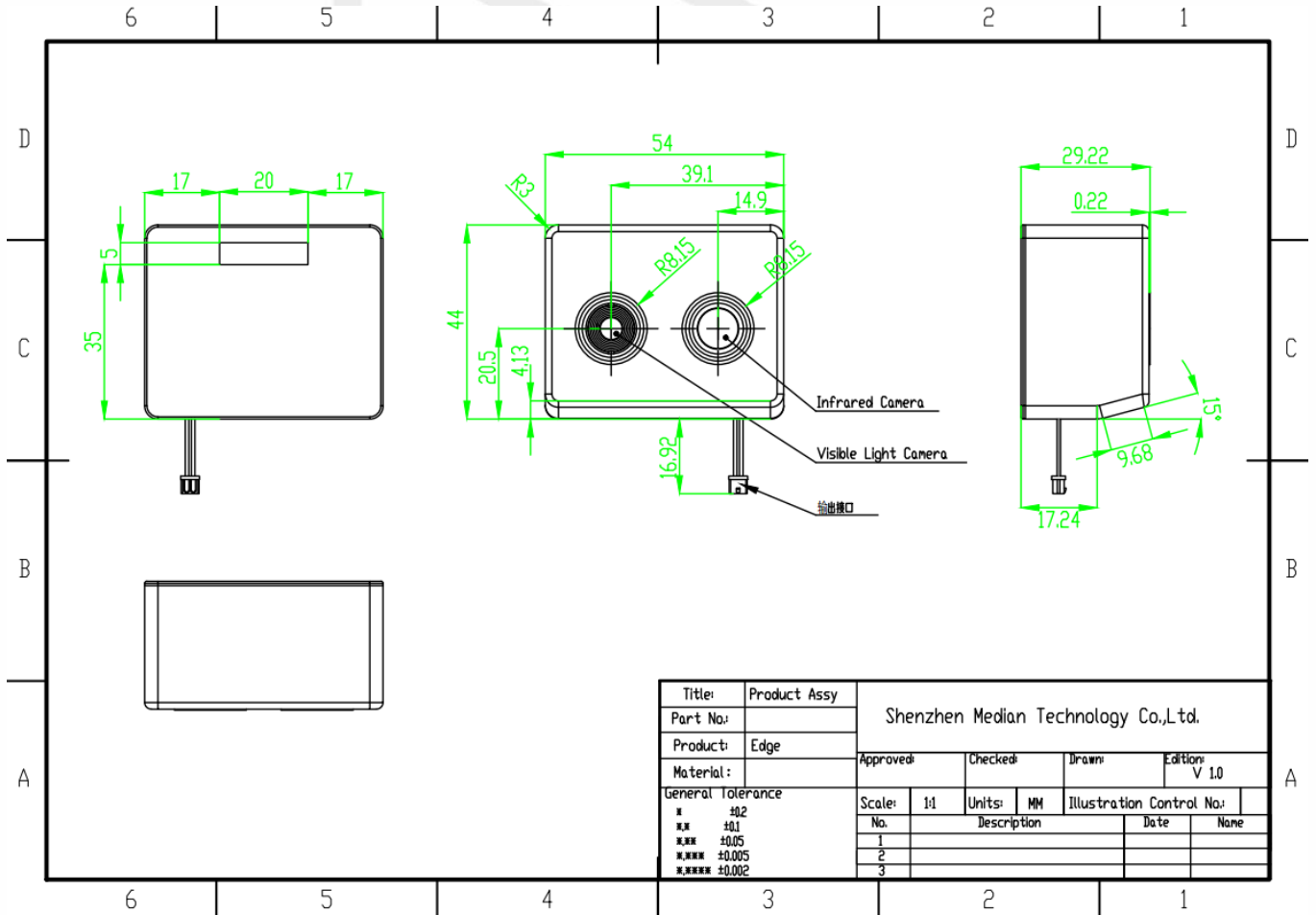


Figure 1 Engineering Drawing of Edge

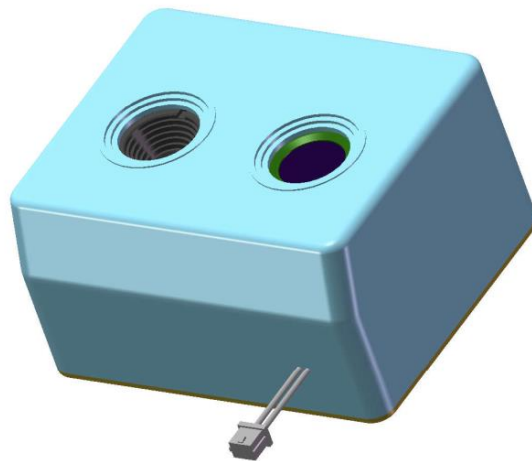


Figure 2 Stereoscopic rendering of Edge

3. Interface Description

3.1. Pin Diagram

Edge's connector is FFC/FPC dual contact side connector, 35pin, 0.3mm Pitch.

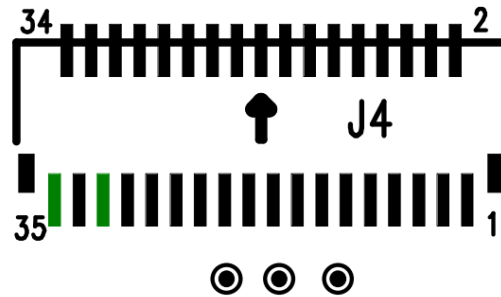


Figure 3 Pin diagram (PCB)

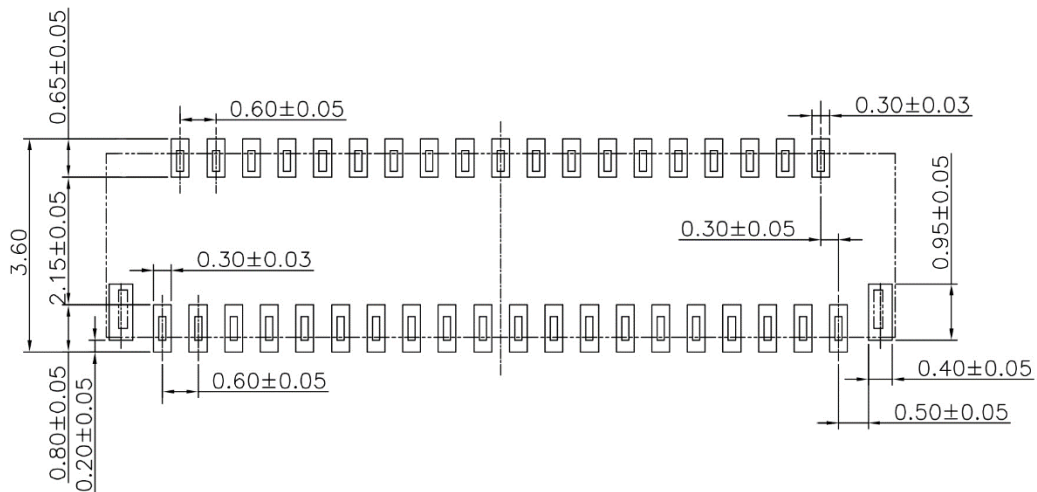


Figure 4 The dimensions of Edge's connector

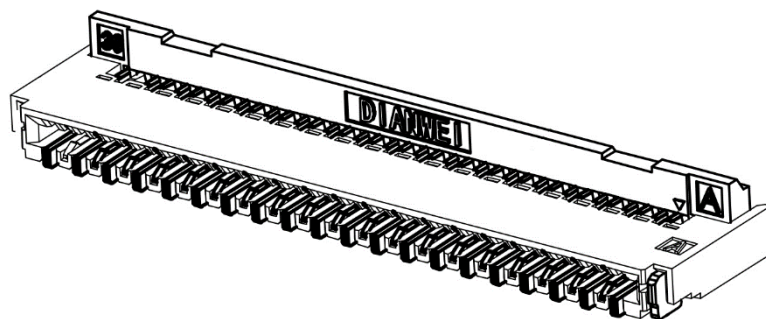


Figure 5 The stereogram of Edge's connector



3.2. Pin Description

PIN_1	USB_D-	PIN_2	HSYNC
PIN_3	USB_D+	PIN_4	VSYNC
PIN_5	PCLK	PIN_6	DVP_DATA7
PIN_7	DVP_DATA6	PIN_8	DVP_DATA5
PIN_9	DVP_DATA4	PIN_10	DVP_DATA3
PIN_11	DVP_DATA2	PIN_12	DVP_DATA1
PIN_13	UART1_RX	PIN_14	DVP_DATA0
PIN_15	UART1_TX	PIN_16	GND
PIN_17	GND	PIN_18	MIPIDSI-DATA0+1
PIN_19	GND	PIN_20	MIPIDSI-DATA0-1
PIN_21	GND	PIN_22	GND
PIN_23	GND	PIN_24	MIPIDSI-DATA0+0
PIN_25	GND	PIN_26	MIPIDSI-DATA0-0
PIN_27	GND	PIN_28	GND
PIN_29	GND	PIN_30	MIPIDSI-CLK+
PIN_31	+5V	PIN_32	MIPIDSI-CLK-
PIN_33	GND	PIN_34	GND
PIN_35	+5V		