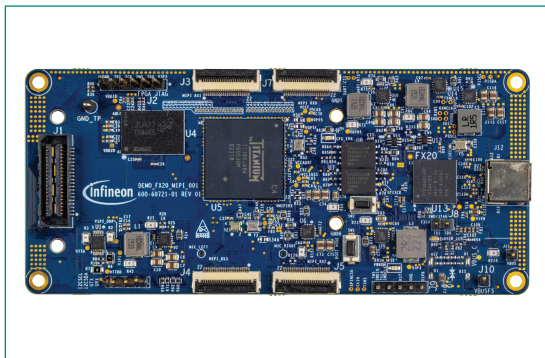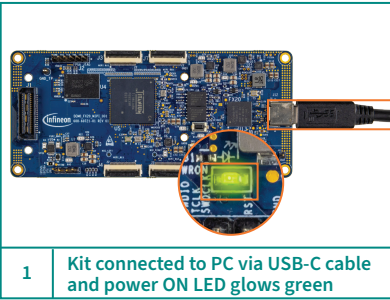# EZ-USB™ FX20 USB MIPI camera demo Kit

DEMO_FX20_MIPI_001

Kit contents

1. EZ-USB™ FX20 USB MIPI camera board
2. USB 3.2 Gen 2x2 cable

3. Quick start guide (this document)

www.infineon.com/FX20

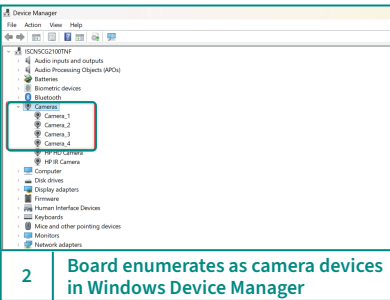| 1 | Kit connected to PC via USB-C cable and power ON LED glows green |

Before you start

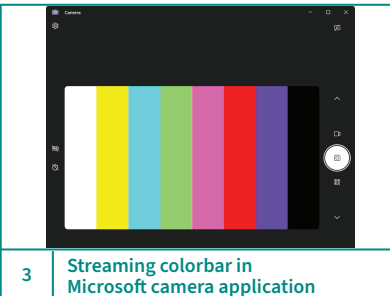Ensure that you have a PC with USB3.2 Gen 2x2 type-C port.

Step 1: Connect and power up the board

Connect the kit Type-C connector (J12) to PC using the USB-C cable provided with the kit. The power-on LED glows green when connected.

| 2 | Board enumerates as camera devices in Windows Device Manager |

Step 2: FX20 enumeration

FX20 driver installation will start automatically. Wait for the driver installation to complete. The board enumerates as four cameras in Windows and it appears under "**Cameras**" in "**Device manager**".

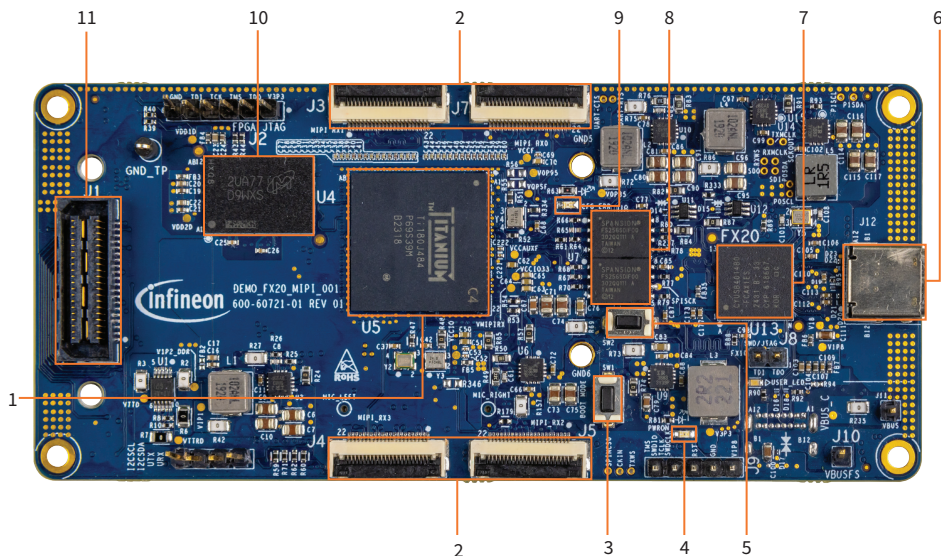| 3 | Streaming colorbar in Microsoft camera application |

Step 3: Stream UVC video from FX20

The kit comes pre-loaded with internal pattern generator firmware that allows users to stream four colorbar videos on any UVC streaming application such as Microsoft camera application.
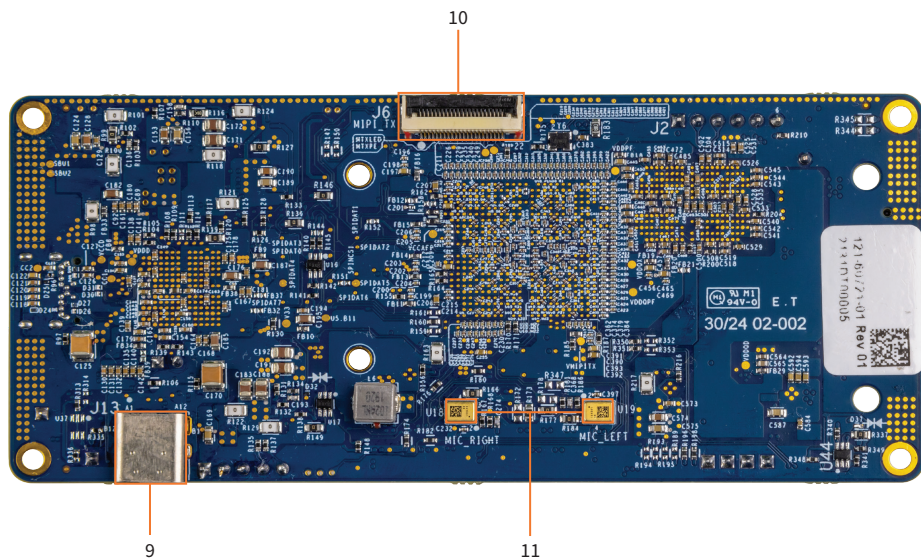
1. Open Microsoft camera application and use "flip camera button" ( ) on the "Camera" application to see colorbar streaming from Camera 1.

2. Flip again to stream colorbar from Camera 2 and so on till you see colorbar streaming from all the 4 cameras.

DEMO_FX20_MIPI_001 Board - top side details

1	FPGA (U5)	7	FX20 (CYUSB4024-FCAXI - U13)
2	Camera connectors (J3, J4, J5, J7)	8	SPI Flash (U7, U8)
3	BOOT MODE switch (SW1)	9	FPGA configuration error LED (CFGERR)
4	Power-on LED (PWRON)	10	Frame buffer – LPDDR4 SDRAM (U4)
5	Reset (SW2)	11	GPIO connector (J1)
6	USB-C connector (J12)		

DEMO_FX20_MIPI_001 Board - bottom side details

9 USB FS connector for Debug message log (J13)	10 MIPI TX connector (J6)
	11 Microphones (U18, UJ6)