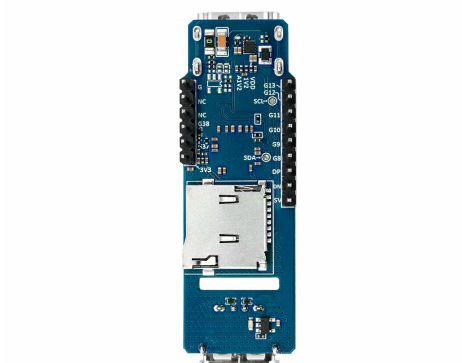
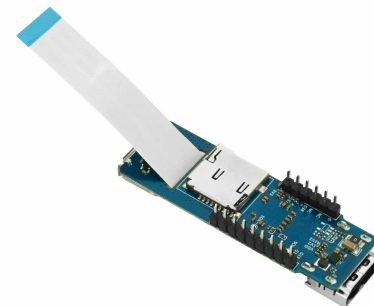
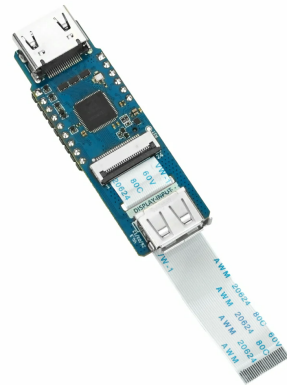


AddOn Display In For PoE-P4

SKU:U220





Description

AddOn Display In For PoE-P4 is an HDMI video input expansion module designed for **Unit PoE-P4**. Built around the **LT6911D** chip, it converts **HDMI** video signals from external devices into **2-Lane MIPI CSI** signals and transmits them to Unit PoE-P4, enabling the host controller to capture, process, and analyze video.

In addition to video input, the module provides peripheral connectivity and local storage expansion. The onboard microSD slot connects to the host controller's **SDIO** bus for storing captured video, images, and related data, while the onboard **USB Type-A** port supports peripherals such as mice and keyboards. Video, control, storage, and USB signals are routed to Unit PoE-P4 through a 24P FPC interface. The module is suitable for HDMI video capture, image processing and analysis, machine vision, video surveillance, and embedded multimedia terminals.

Features

- HDMI video input expansion module for Unit PoE-P4
- **HDMI** to **MIPI CSI** video input conversion based on **LT6911D**
- Standard **HDMI Type-A** input for quick connection to external HDMI video sources
- Onboard microSD slot connected to the host controller's **SDIO** bus for local storage of captured video, images, and related data
- Onboard **USB Type-A** port supporting peripherals such as mice and keyboards
- Supports integrated applications combining video capture, image processing, peripheral connectivity, and local storage
- Supports **1280 x 720 @ 60Hz** and **1920 x 1080 @ 30Hz** input resolutions

Includes

- 1 x AddOn Display In For PoE-P4
- 1 x 24P FPC Cable (0.5mm Pitch)

Applications

- HDMI video capture
- Image processing and analysis
- Machine vision
- Video surveillance
- Embedded multimedia terminals

Specifications

Specification	Parameter
Conversion Chip	LT6911D
I2C Address	0x56
Main Interface	24P FPC (0.5mm Pitch)
Output Signal	2-Lane MIPI CSI / INTIO
Input Signal	SYS_SDA / SYS_SCL / USB1_DP / USB1_DN / SDIO / TF_DET
HDMI Input	1 x HDMI Type-A
USB Expansion Port	1 x USB Type-A
USB Load Capacity	5V@0.5A
Storage Expansion	1 x microSD Slot
Power Input	DC 5V (Powered by the Unit PoE-P4 Expansion Interface)
HDMI Input Timing	1280 x 720 @ 60Hz / 1920 x 1080 @ 30Hz
Standby Power	DC 5V@30.75mA (Entire Device, Excluding DSI Display)
Operating Power	DC 5V@388.13mA (Entire Device, Including DSI Display)
Product Size	63.1 x 20.3 x 15.5mm
Product Weight	7.9g
Package Size	138.0 x 93.0 x 16.5mm
Gross Weight	11.0g

Learn

Note

Because GPU scaling is enabled by default on Windows and macOS, `the actual output resolution signal may differ from the resolution configured in the system`, which may prevent the program from operating correctly:

- Windows: Configure the graphics driver to correctly output the target resolution signal.
- macOS: Use a third-party tool to force the corresponding output resolution for correct display.

Schematics

- [AddOn Display In For PoE-P4 Schematics PDF](#)

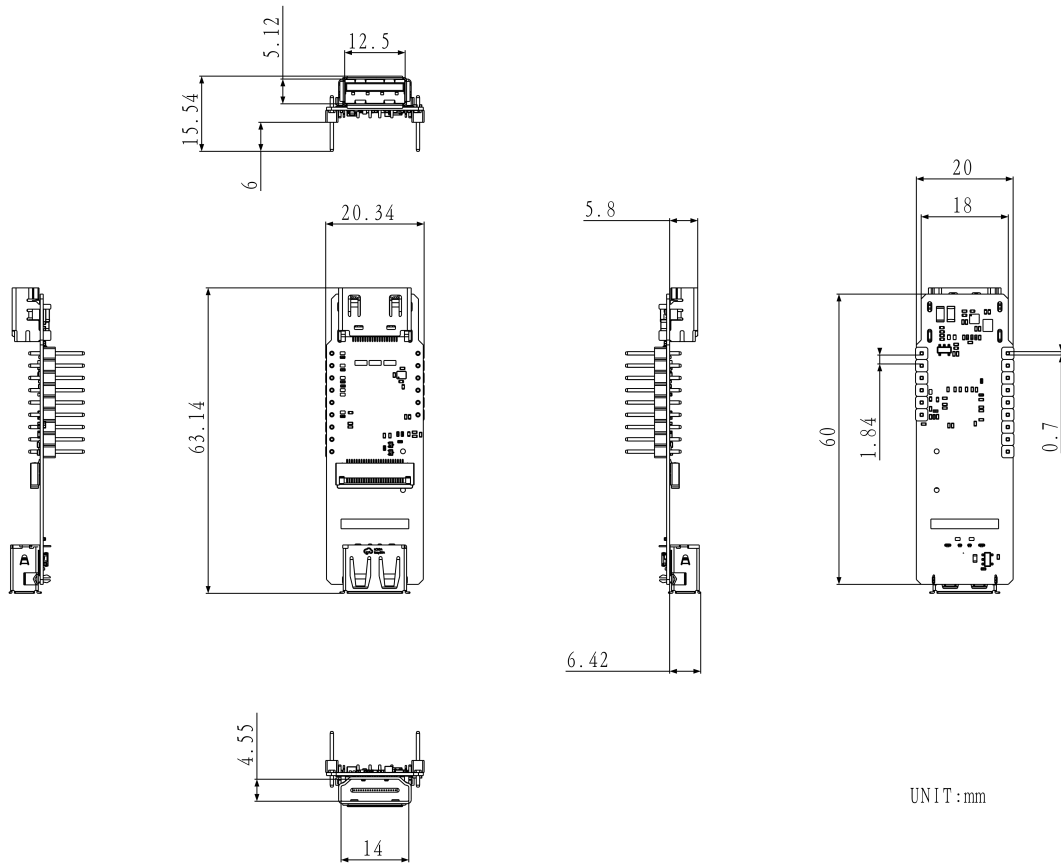
Signal Group	Signal
I2C	SYS_SCL, SYS_SDA
MIPI CSI	MIPI1_CLK_P/N, MIPI1_lane0_P/N, MIPI1_lane1_P/N
Control / Power	RST_1V8, 1V8, GND

SDIO & USB & POWER

PIN	LEFT	RIGHT	PIN
SDIO_CMD	1	1	GND
SDIO_CK	2	2	
SDIO_D3	3	3	
SDIO_D2	4	4	INTIO
SDIO_D1	5	5	TF_DET
SDIO_D0	6	6	3V3
USB1_DP	7		
USB1_DN	8		
5V	9		

| Model Size

- [AddOn Display In For PoE-P4 Model Size PDF](#)



Softwares

UiFlow2

- [AddOn Display In For PoE-P4 UiFlow2 Docs](#)

ESP-IDF

- [AddOn Display In For PoE-P4 ESP-IDF Example Guide](#)

Video