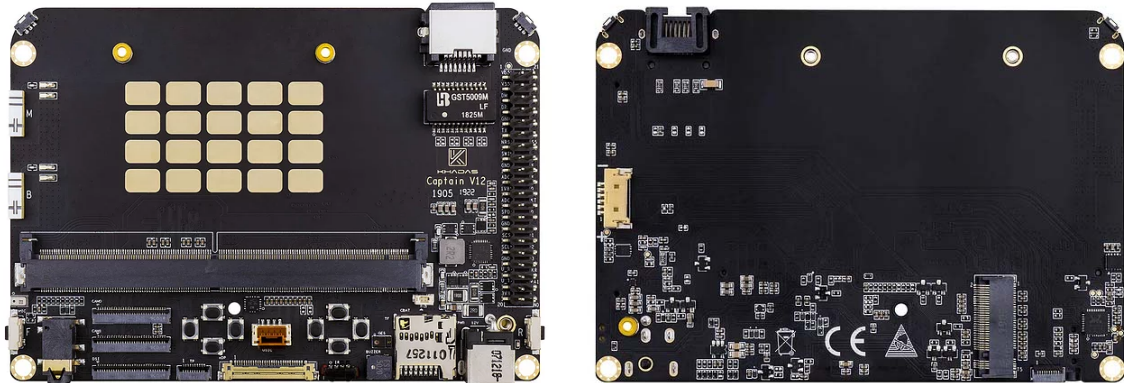




KHADADAS



Captain Carrier Board

SKU: K-CT-001

I/O expansion board for the Khadas Edge.

Features:

Camera:

- Interface: 4 lanes MIPI-CSI
- Dual 13 MegaPixels Supported
- Connector: 30 Pin 0.5mm Pitch FPC Connector
- 4 lanes MIPI-DSI
- 4 lanes eDP 1.3, up to 10.8Gbps

Display:

- 10PIN 0.5mm Pitch FPC Connector
- Touch Panel
- M.2 Socket
- 4 full-duplex lane PCIe 2.1
- M.2 2280 NVMe SSD Supported

LAN:

- 10/100/1000M, Support WOL (Wake On LAN) Feature

TF Card:

- SD 3.0, up to 256GB

Gesture Control:

- APDS-9960
- Digital Proximity, Ambient Light, RGB and Gesture Sensor

Motion Tracking:

- ICM-20602
- 6-axis: 3-axis gyroscope, 3-axis accelerometer

Audio:

- Realtek ALC5651 Audio Codec
- 3.5mm Headphone Jack
- Microphone Sensitivity: -42dB
- Speaker(via FPC)

DC Jack:

- Input Voltage: 12V
- Outer/Pin Diameter: 5.5/2.1mm

Battery:

- 2-Cell Li-Ion Battery
- Fuel Gauge IC: CW2015
- Connector: 7 Pin 1.25mm Pitch Header
- RTC Battery Header
- 0.8mm Pitch Header

Buttons:

- x8 (Programmable Game Pads)
- x2 (Left & Right Function Buttons)
- x2 (Reset, U-Boot/Func)
- Wi-Fi Antenna
- Chip Antenna x2
- Model: Pulse W3006
- 2.4-2.5/5.15-5.85GHz Dualband

Buzzer:

- SPL: > 75dB (distance at 10cm)
- Response Time: < 40ms
- Oscillation Frequency: 4000Hz

IR Receiver:

- 2 Channels

LED:

- Red LED x1, Programmable

USIC:

- via a 1.25mm Pitch Header

- 40 PIN 2.54 Header
- USB, I2C, SPI, I2S, SPDIF, ADC, STM8S MCU IOs

Mounting Holes:

- Size M3 x 4

Board Dimensions:

- 82.0 x 116.0 x 13.5 mm

Board Weight:

- 52g

Compatibility:

- Khadas Edge

Power Supply:

- For stable performance, please use the USB-C 24W Adapter with USB Power Delivery.
- Or the 12V DC barrel jack.

In the Box:

- Captain Carrier Board