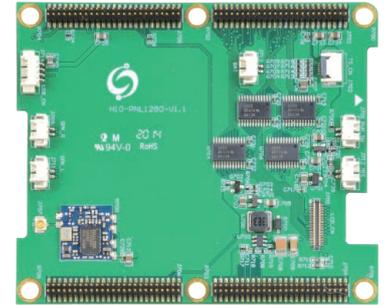


# Ultra-Thin 3D Expandable Freescale i.MX6 ARM Open Modular Platform

## Modular

Designed with rapid prototyping and expansion in mind, the HIO Mainboard has 200 female headers on the top and bottom and is stackable. The Mainboard can be equipped with a variety of daughter boards in a vertical top and bottom fashion, with wing-type modules or a carrier board.



## Open Architecture

The HIO Project is an open architecture design, allowing you to code your own software and develop your own hardware for any application. We will be providing SDKs for Android and Linux.



## Thin

The HIO Project Mainboard is the thinnest computer running on the Freescale i.MX 6 processor. The height is just under 10mm which is roughly the same as a fresh stack of Post-It notes.



## Small

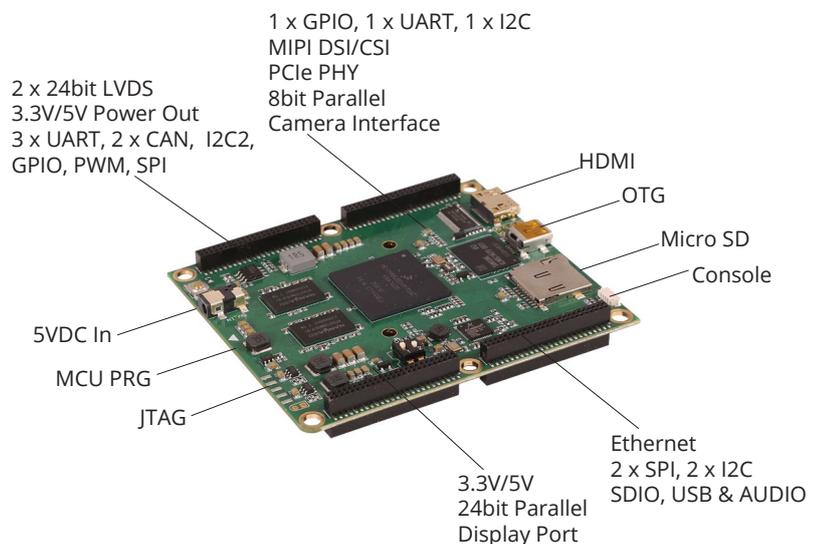
The HIO Mainboard is only 72mm x 80mm and only about 10mm tall (about as tall as a new stack of Post-its) allowing it to fit into a standard 2-Gang Electrical Box like in our HIO Wallpad.

## Adaptable

The HIO can be powered by the HIO Mainboard or daughter board like the POE module or the Mainboard power adapter.

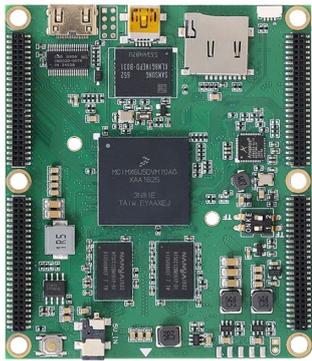
## Flexible I/O

Different configurations bring out all display ports, camera ports CAN, serial, I2C, SPI, SDIO and more I.MX6 I/O resources through HIO's 400 pins.



# HIO Project Freescale i.MX6 ARM Boards

## SOM-NMX6DL-HIO



### HIO Mainboard

72 x 80mm  
 Freescale i.MX6 DL/Q  
 1 x HDMI  
 1 x micro SD socket  
 2 x USB2.0  
 1 x OTG (Device)  
 1 x UART Console  
 1 x on-board audio codec with 1W AMP  
 1 x GbE PHY  
 8 x 50-pin female header  
 5VDC Power In

## HIO-POE-0528



### HIO Daughter Board

72 x 60mm  
**Standard Power**  
 12V POE Module,  
 802.3af compliant  
**Ethernet**  
 1 x GbE via POE or GbE only without POE module  
**Serial**  
 1 x RS-232 via RJ45, 3 x RS-232 via pin header  
 Optional Power

## HIO-PNL-1280



### HIO Daughter Board

72 x 80mm  
**Display Port**  
 Parallel RGB, default support Sharp 3.5" LCD Panel, 2.8VDC  
**WiFi**  
 1 x USB WiFi Module  
**I/O**  
 1 x USB2.0, 1 x I2C for TP, 1 x power button  
**Audio**  
 1 x Mic-in, 2 x 1W speaker out

## HIO-IOB-1240



### HIO Daughter Board

72 x 40mm  
**Ethernet**  
 1 x GbE, RJ45  
**Camera Port**  
 1 x 8bit Parallel, 1 x MIPI 2-lane CSI, 2 x I2C  
**I/O**  
 2 x USB2.0, 1 x 4bit SDIO, 1 x 5V + 3.3V pin header  
**Audio**  
 1 x Line-out, 1 x Line-in, 1 x Mic-in, 2 x 1W

# Drop-in PoE In-wall Android Universal Controller

Home Automation

Office Automation

Screen Mirroring

General Control Panel



The HIO Wallpad is a way to completely connect and control your entire home or office in one centralized easy-to-install unit. Running off the latest generation Freescale i.MX6 Processor, the Android powered Wallpad is universally compatible with a number of different control and home automation applications.

## ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9 years' experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinners and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

