

Seeed New Products in Embedded World 2020

7th January 2020

All-New “ODYSSEY” Single Board Computer Family

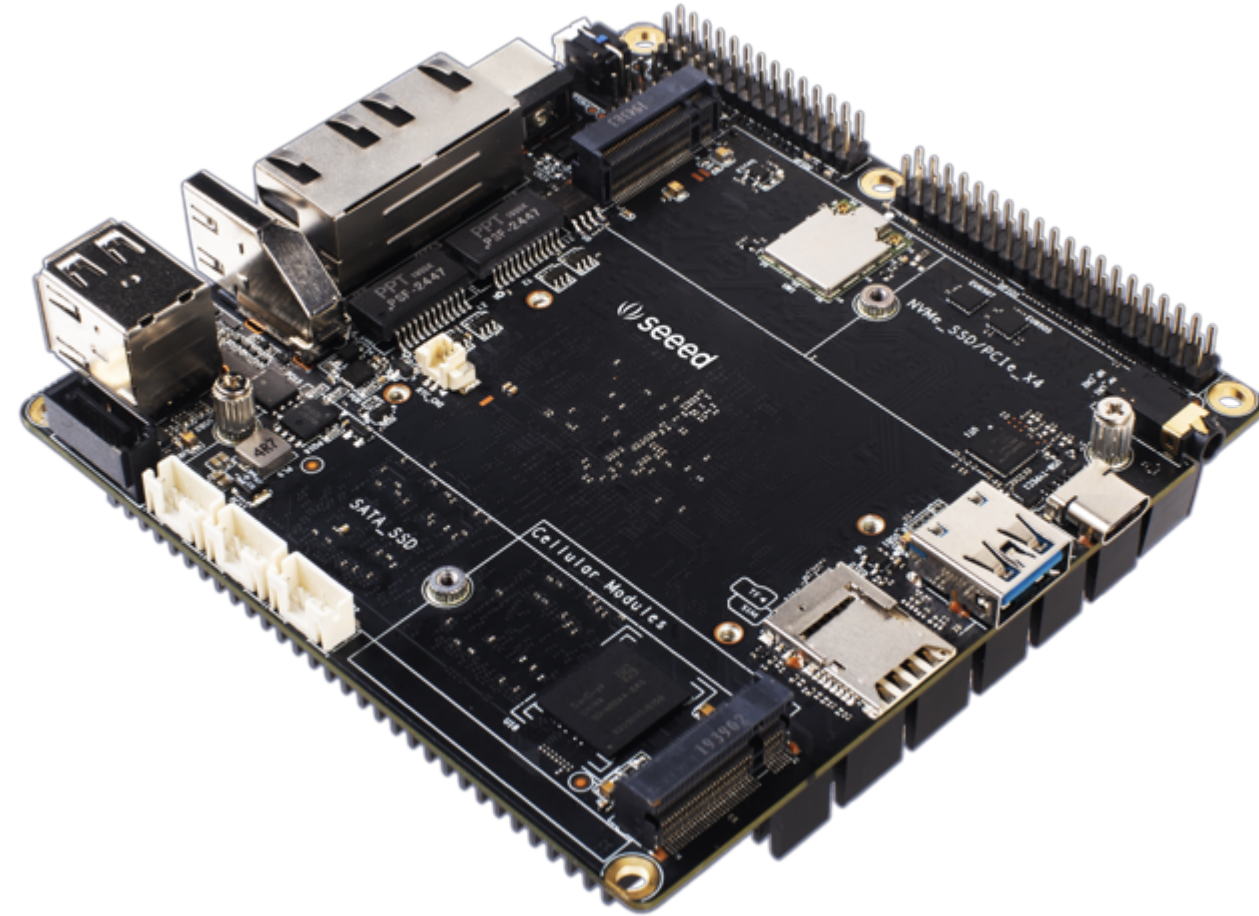
The word ODYSSEY is comes from movie: 2001: A Space Odyssey.

Odyssey represents new technology , new journey , new age of single board computer.

ODYSSEY – X86J4105

--The Most Expandable X86 Mini Computer

- The ODYSSEY – X86J4105 is new form factor of Mini personal computer. It based on Intel ® Celeron ® J4105, a 4-core 1.5GHz CPU that burst to 2.5GHz. It has all the great features that fit normal PC' s needs
- There is onboard ATSAMD21, an Arm cortex-M0 MCU that allows you programming Arduino on X86 platform, The Raspberry Pi compatible 40-Pin allows you using hundreds of Pi HAT in the market. All of these features providing endless possibilities of using the ODYSSEY Board.
- **【 SKU 】** 102110397 / 102110398 / 102110399
- **【MSRP】** ~\$159 / \$239 / \$199
- **【Distributor Price】** Coming soon
- **【 Launch Time】** Pre order on 1st Feb

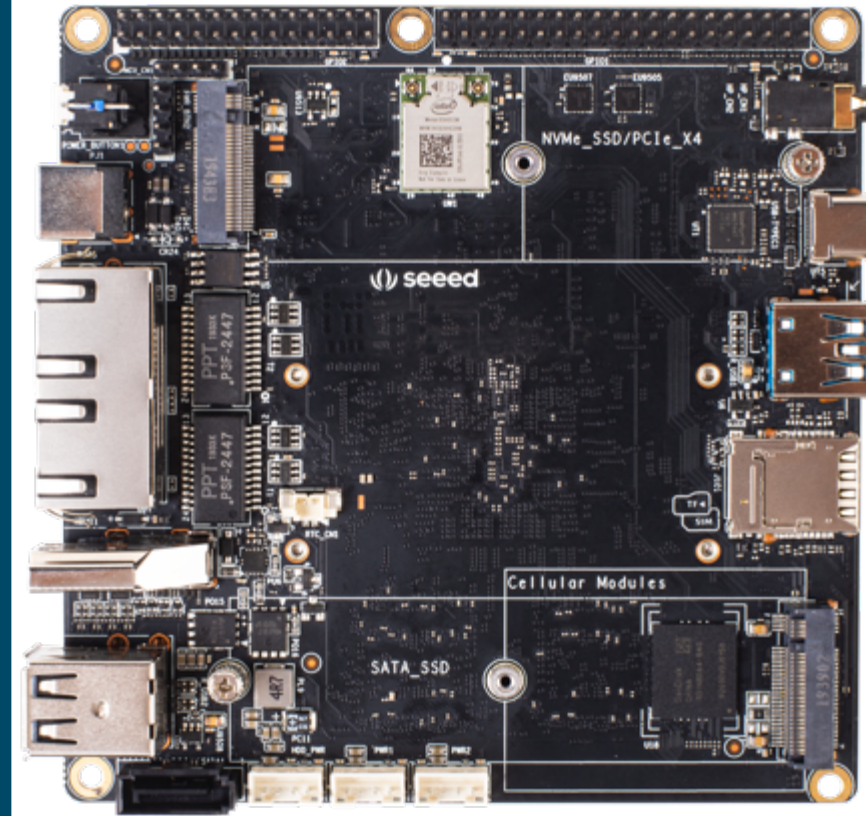


ODYSSEY – X86J4105

--The Most Expandable X86 Mini Computer

【 Specifications 】

- **Processor :** Intel® Celeron® J4105, 4-Core 1.5GHz, Burst to 2.5GHz
- **Coprocessor:** Microchip®ATSAMD21G18, 32-Bit ARM® Cortex® M0+
- **Graphics:** Intel® UHD Graphics 600, Frequency 250M (up to 700 MHz)
- **Memory:** LPDDRA 8GB 2400MT/s
- **Storage:** Sandisk® eMMC 5.1 64GB
- **Wireless:** Wi-Fi 802.11 a/b/g/n/ac @2.4/5 GHz HT160
- **Bluetooth:** Bluetooth® 5.0
- **Networking:** 2 × Intel® I211AT PCIe Gigabit LAN
- **Audio:** Realtek® ALC269 High definition audio

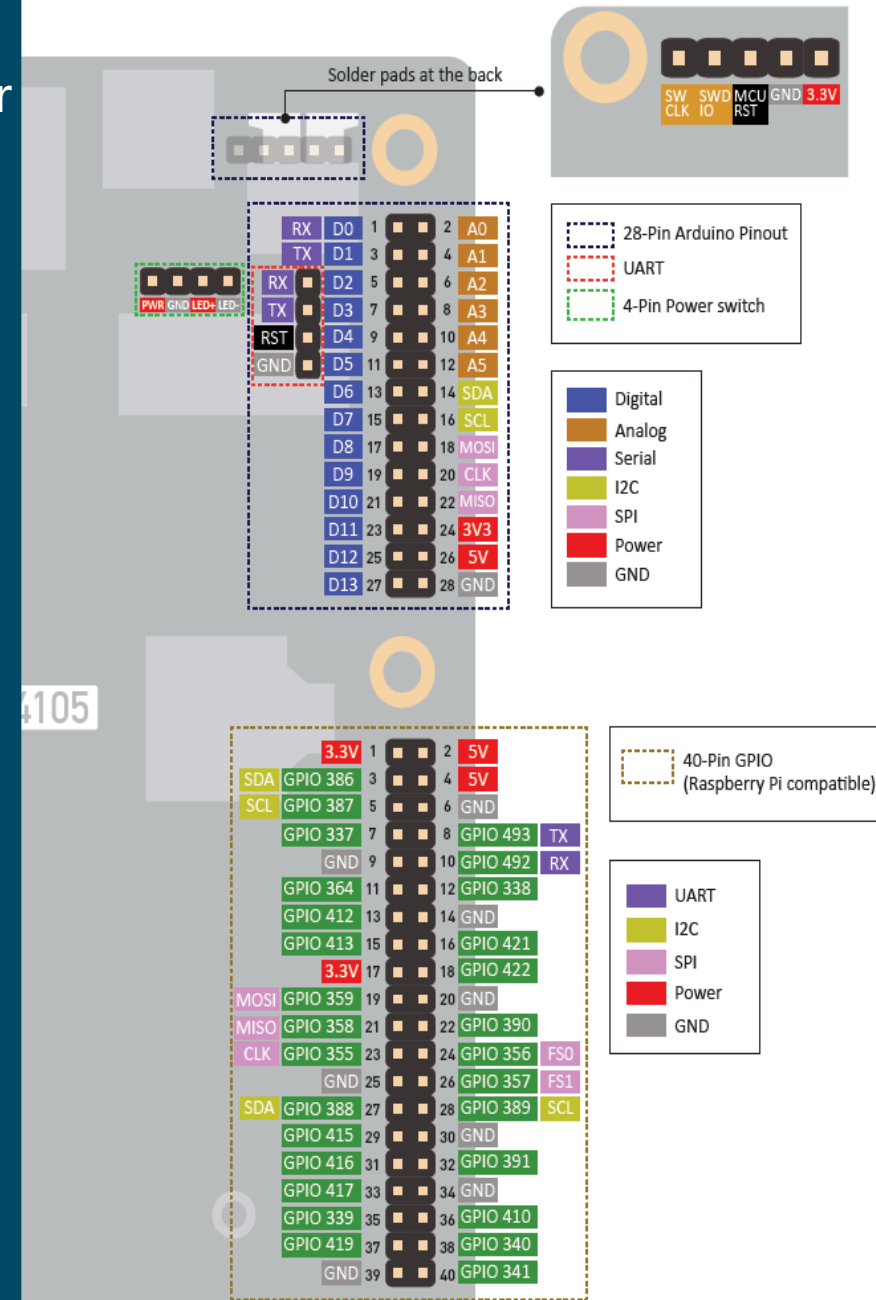


ODYSSEY – X86J4105

--The Most Expandable X86 Mini Computer

【 Specifications 】

- **Expansion Slot:** 1 × M.2(Key B, 2242/2280) SATA III & USB2.0 & UIM
1 × M.2 (Key M, 2242/2280) PCIe 2.0 ×4
1 × Micro SD card Socket
1 × SIM Card Socket connected to M.2 Key B
1 × SATA III (6.0Gb/s)
- **USB:** 2 × USB 2.0 Type-A , 1 × USB 3.1 Type-A, 1 × USB 3.1 Type-C
- **Power:** DC Jack input : 12-19V DC, Type-C input: 12V DC
- **Certification:** 2 × FCC, CE, Telec
- **Dimensions:** 110 × 110 mm



ODYSSEY – X86J4105

--The Most Expandable X86 Mini Computer

【 Three Version】

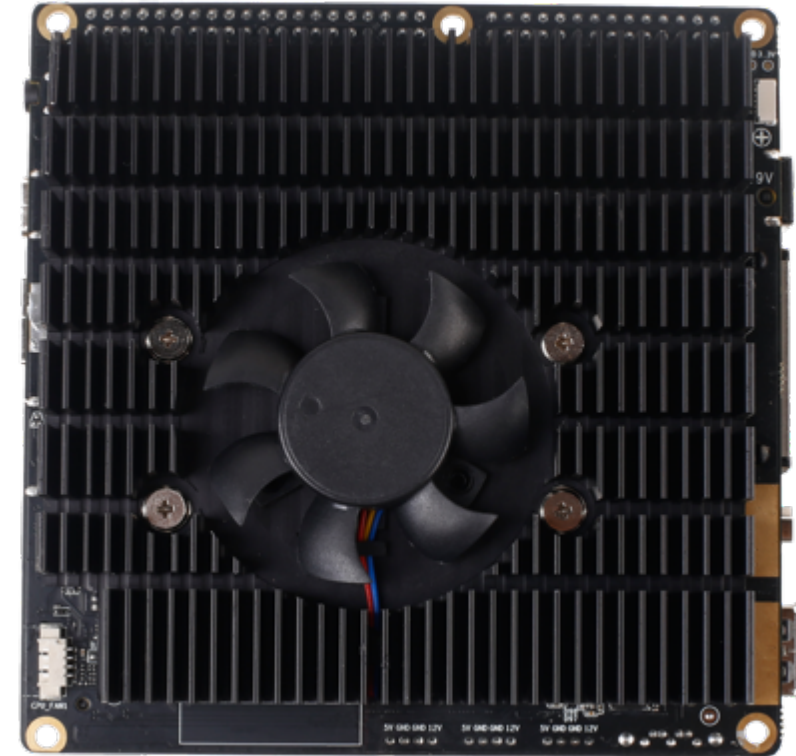
SKU	Name	CPU	Core	RAM	Memory	Conectivity
102110397	ODYSSEY – X86J4105864	Intel® Celeron® J4105	4-Core 1.5GHz, Burst to 2.5GHz	LPDDR4 8GB	eMMC 64GB	Wi-Fi 2.4/5 GHz Bluetooth® 5.0
102110398	ODYSSEY – X86J4105864 (Win10 Enterprise Activated)	Intel® Celeron® J4105	4-Core 1.5GHz, Burst to 2.5GHz	LPDDR4 8GB	eMMC 64GB	Wi-Fi 2.4/5 GHz Bluetooth® 5.0
102110399	ODYSSEY – X86J4105800	Intel® Celeron® J4105	4-Core 1.5GHz, Burst to 2.5GHz	LPDDR4 8GB	N/A	Wi-Fi 2.4/5 GHz Bluetooth® 5.0

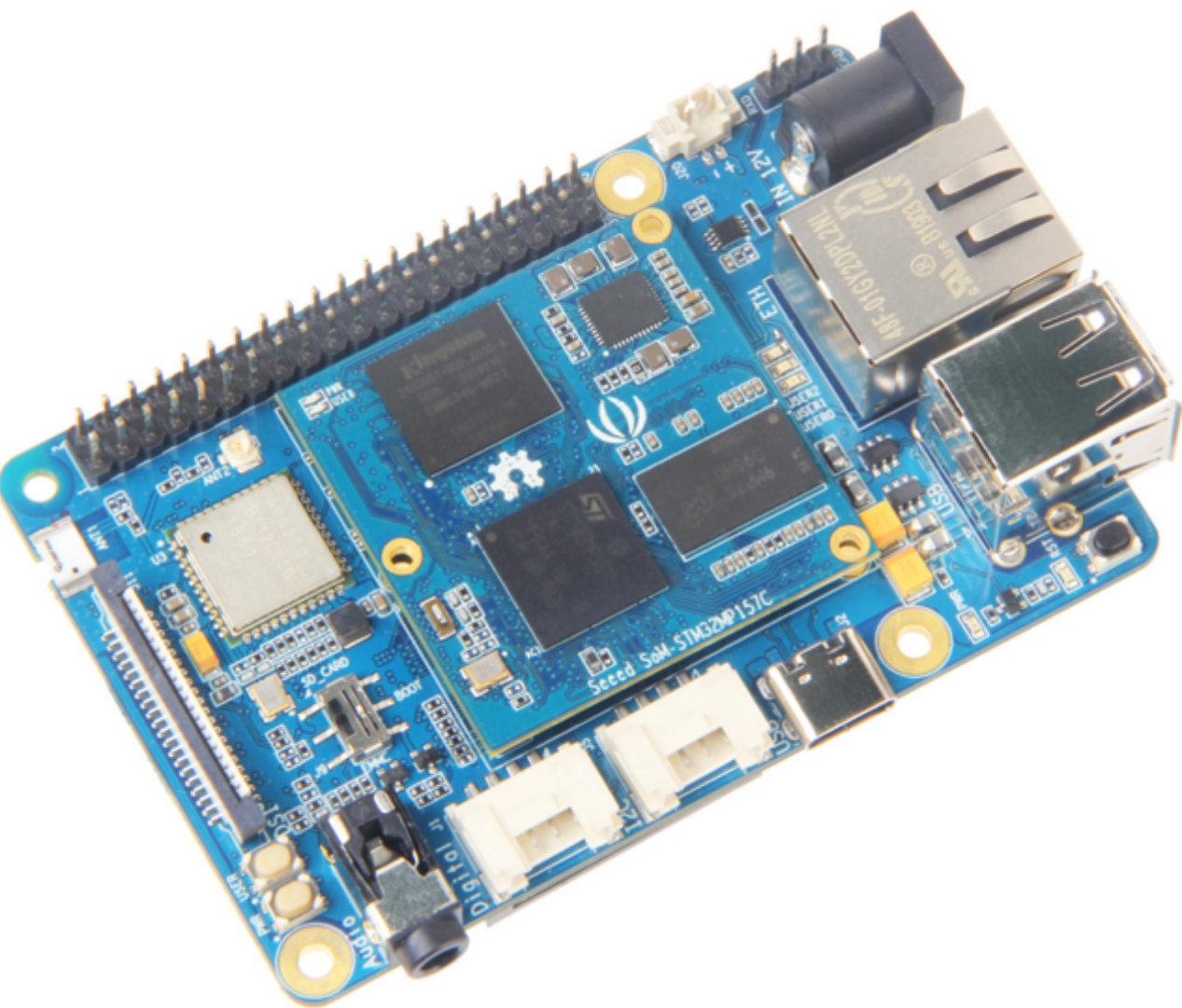
【 Applications】

- Mini PC, Network Attached Storage (NAS), Virtual Router, Industrial Controller, Media Center, Server Cluster, IoT Gateway

【 Target User】

- IT Experts, Embedded Developers, Educators, Artists





ODYSSEY – STM32MP1

--A latest SoM+Carrier form factor
Single Board Computer for fast prototyping

This single board computer is based on STM32MP157C, a dual-core 650MHz Arm-Cortex-A7 core processor. This board is created in a form of SoM(system on module) plus the Carrier board, which is a Raspberry Pi form factor. The carrier board includes plenty of necessary peripherals resources. Customers can also fast evaluate the SoM and deploy their carrier board easily and quickly.

【Features】

- A latest SBC design: SoM +Carrier Board
- A powerful 650 MHz dual-core STM32 MPU
- Fast evaluation tool for industrial application

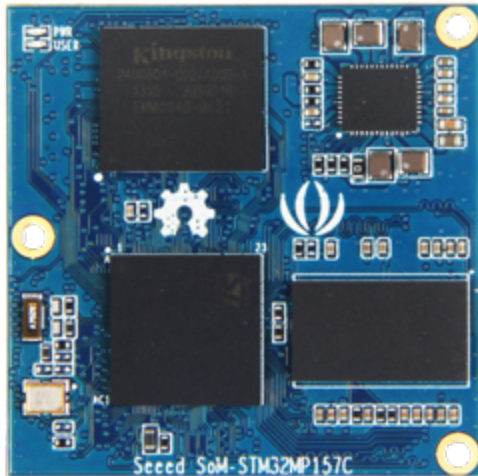
SoM – STM32MP1

【 SKU 】 102110318

【MSRP】 \$26.9/pcs

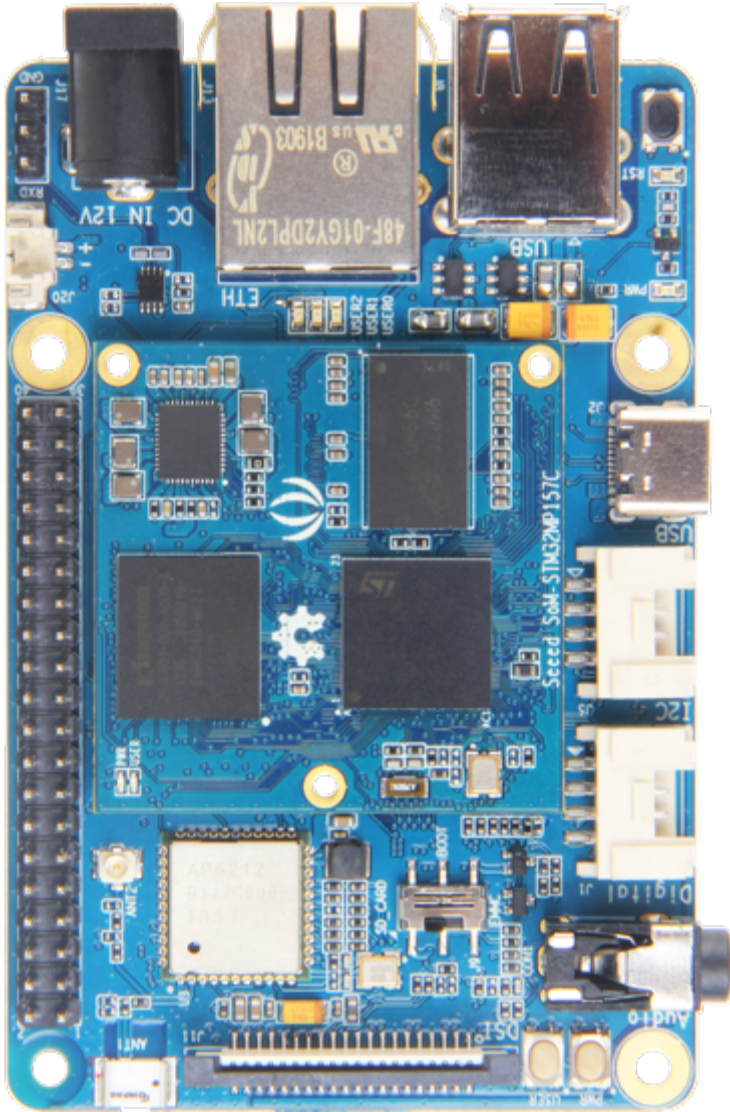
【Distributor Price】 \$20.5/pcs

【 Launch Time 】 20th Feb



【 Specifications (SoM) 】

- **MPU:** STM32MP157C
 - 32-bit dual-core Arm Cortex-A7
 - 32-bit Arm Cortex-M4 with FPU/MPU
- **PMU:** ST PMIC STPMIC1A
- **RAM:** 512MB DDR3 RAM
- **Flash:** 4GB EMMC
- **Peripherals:** 3 × PICO 70-pin Hirose connectors
- **Dimensions:** 38 × 38 mm



ODYSSEY – STM32MP1

【 SKU 】 102110319

【MSRP】 \$54.9/pcs

【Distributor Price】 \$45.9/pcs

【 Launch Time 】 20th Feb

【 Specifications (Carrier Board) 】

- **Peripherals :**
 - 2 x USB Host
 - 1 x Gigabit Ethernet
 - 1 x 3.5mm Audio
 - 1 x MIPI DSI for Screen
 - 1 x DVP for Camera
 - 2 x Grove (GPIO & I2C)
 - 1 x SD Card Slot(on the back)
- **WiFi/BLE :** WiFi 802.11 b/g/n 2.4GHz , Bluetooth 4.1 with BLE
- **LED :** 1 x Reset 3 x User 1 x Power
- **Power :** 1 x DC Jack 1 x USB Type-C
- **Button :** 1 x Reset 1 x User 1 x Switch

Demo List in Embedded World 2020

New Single Board Computer product line and interactive demos

New Microcontroller product series

New Grove water quality sensor series for industrial application demos

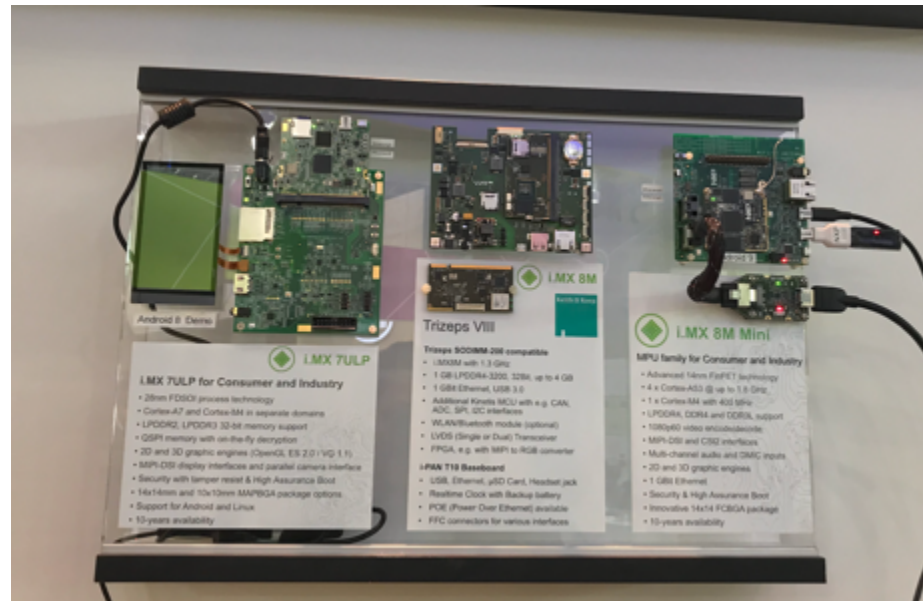
Scenario solutions for agricultures, interactions , security

【Demo Details】

- **Size** : 32 × 24 mm
- **Type** : Static demo / Interactive demo
- **Display Form** : Vertical or Hanging

【Demo List】

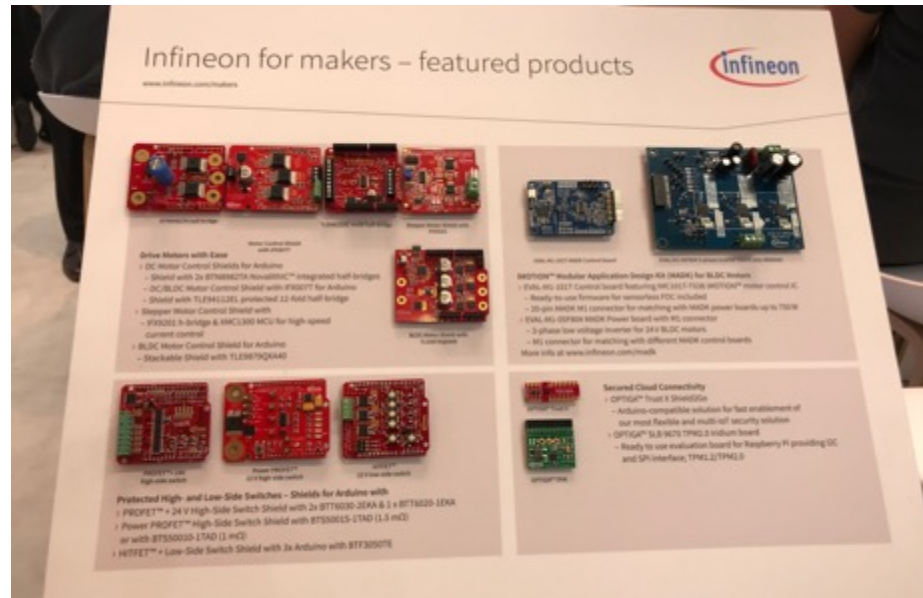
- ODYSSEY STM32MP1 Demo
- ODYSSEY X86J4105 Interactive Demo
- ODYSSEY i.MX 6ULL Demo
- Grove Water Monitor Demo
- Grove Environment Monitor Demo
- ReSpeaker Interactive Demo
- SenseCAP Agriculture Sensor Hub



Hanging demo

Need electricity

Have introductions



Stand Demo

Do not need electricity

Have introductions