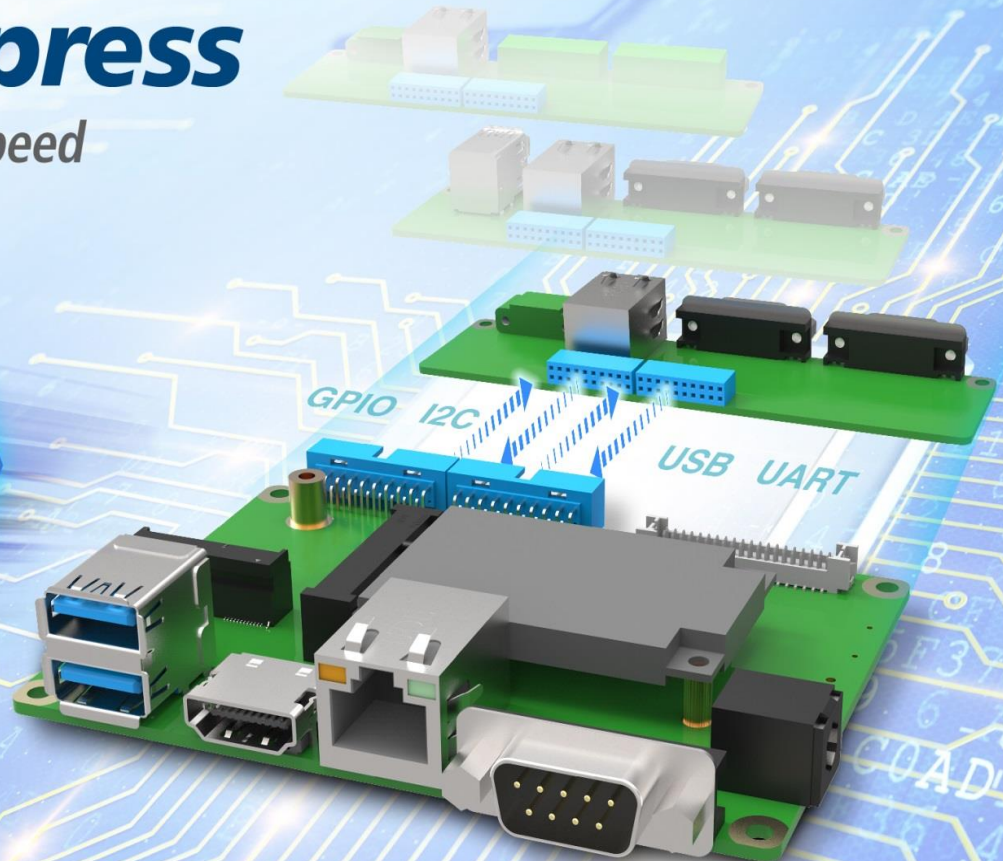




# UIO20/40-Express

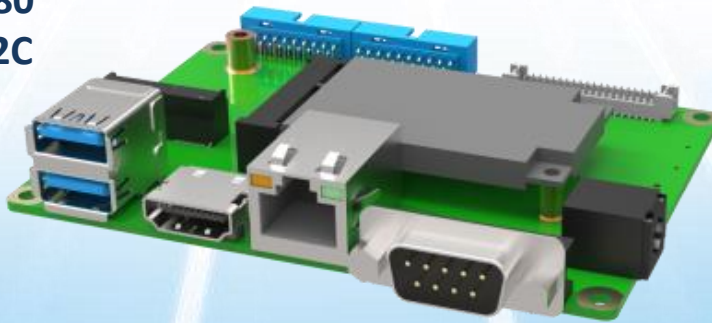
Build Your Applications with Speed



# RSB-3430 SBC product features

## Feature

- NXP i.MX6 Dual / Quad
- 1GB DDR3, 4GB eMMC
- HDMI, 2 LVDS, 1920 x 1080
- Micor SD, 10 GPIO, SPI, I2C
- 1x RS-232/485
- 3x 2-wire RS232
- 46USB 2.0
- 12 VDC-In
- 0-60 °C and -40-85 °C



## Connectivity

- 1 Gigabit Ethernet
- 1 Mini-PCIe, SIM socket
- 1 M.2 Key-E socket

Extend by module:

Wi-Fi/ Bluetooth  
4G/ LTE/ GPS



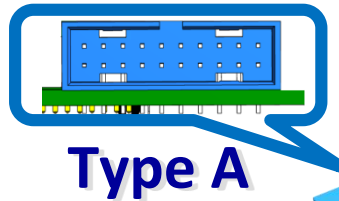
Applications: Signage, All-in-One, Controller, Mobile Data Terminals

# UIO20/40-Express

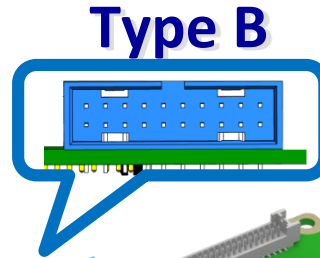
- Core spirit and purpose
  - Accelerate arm technology popular and reduce the entry barrier
- General I/O for expansion – USB,UART,CAN,I2C,GPIO
- UIO20-Express : Type A
- UIO40-Express : Type A + B

1	VCC	2	GND
3	D-	4	D+
5	D+	6	D-
7	GND	8	VCC
9	GPIO	10	GPIO
11	GPIO	12	GPIO
13	VCC	14	GND
15	D-	16	D+
17	D+	18	D-
19	GND	20	VCC

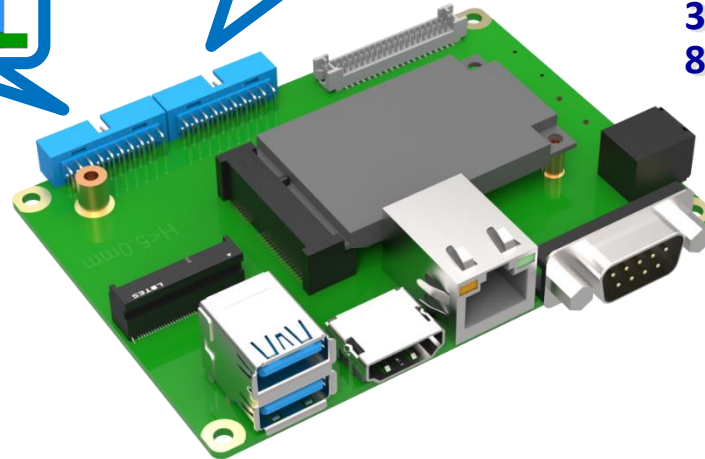
**4 USB, 4 GPIO**



**Type A**



**Type B**



1	5V	2	GND
3	TX1	4	TX2
5	RX2	6	RX2
7	GPIO1	8	GPIO2
9	GPIO3	10	GPIO4
11	GPIO5	12	GPIO6
13	GPIO7	14	GPIO8
15	TX3/CAN+	16	SDA
17	RX3/CAN-	18	SCL
19	3.3V	20	GND

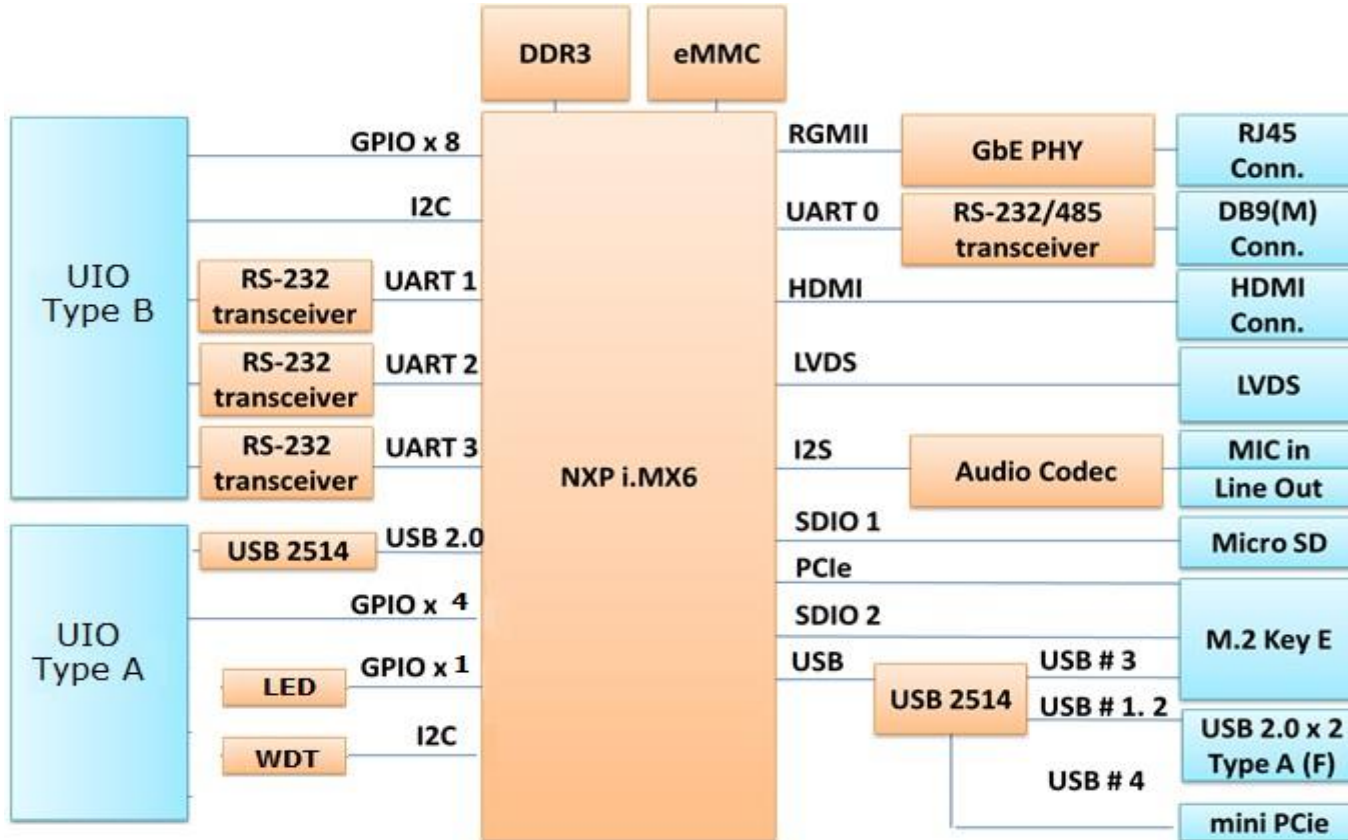
**3 UART, 1 CAN\*, 1 I2C,  
8 GPIO, 3.3V, 5V**

# RSB-3430 Product spec

Specification	Feature	Description
Form factor	2.5" (Pico-ITX)	100 x 72 mm
Processor	CPU	NXP i.MX6 Dual/Quad
Storage	Memory	On-board DDR3 1GB
	NAND Flash	4GB of eMMC Flash
Display	HDMI	x1, Support HDMI 1.4, up to 1920 x 1080
	LVDS	1 Dual Ch. LVDS w/ backlight 5/12V, Max. 1A
External IO	External IO (Connector)	HDMI x1, GbE x1, USB 2.0 x2 COM (RS-232/485) x1, Power jack x1,
Internal IO	Pin Header	Mic in / Line out x1
	Box Header A	USB 2.0 x4 , GPIO x 4
	Box Header B	2wires UART x2, 2wires UART/CAN x1 I2C x1, GPIO x8
Expansion	Expansion	Micro SD slot x1 Mini PCIe slot x1 (USB only) M.2 slot x1 (Key E Type 2230) SIM slot x1
Power	Power	12V DC-in
Environment	Operation temp	0~60 / -40~85 degrees
SW	OS	Yocto Linux 2.4 / Android 8.0



# RSB-3430 block diagram



# UIO-Express SBC Roadmap

Performance

Entry

## Rockchip

■ MP

■ Developing

■ Planning



### RSB-3710

#### AI-Enhanced Applications

- ROCKCHIP RK3399 pro
- Arm Cortex-A72, NPU
- Android 8.1
- Type A / B expansion
- 2.5" 100 x 72 mm

19,Q4

## NXP

### RSB-3430

#### Retail Controller HMI MDT

- NXP i.MX6
- Arm Cortex-A9
- Android 7 and Linux
- Type A / B expansion
- 2.5" 100 x 72 mm

19,Q2



## NXP

### RSB-3720

#### Health care Robotic Defense

- NXP i.MX 8M
- Arm Cortex-A53
- Android 8 .1 and Linux
- Type A / B expansion
- 2.5" 100 x 72 mm

19,Q4

# UIO20/40-Express expansion board Roadmap

UIO extension Board

## UIO-4034

- Type A / B expansion
- CAN bus x1,  
2 wires RS-232 x2
- 126 x 31 mm

19,Q2

## UIO-4032

- Type A / B expansion
- USB x2,  
2 wires RS-232 x2,  
LAN x1
- 126 x 31 mm

19,Q2

## UIO-4030

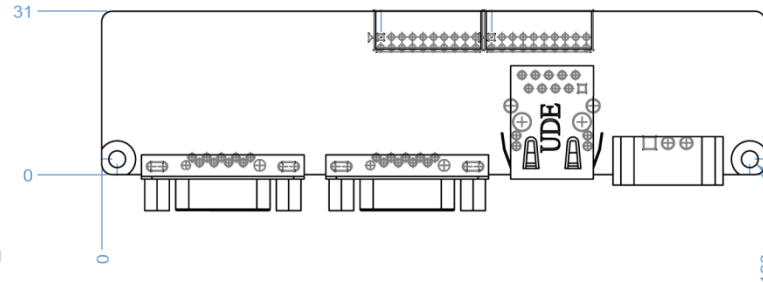
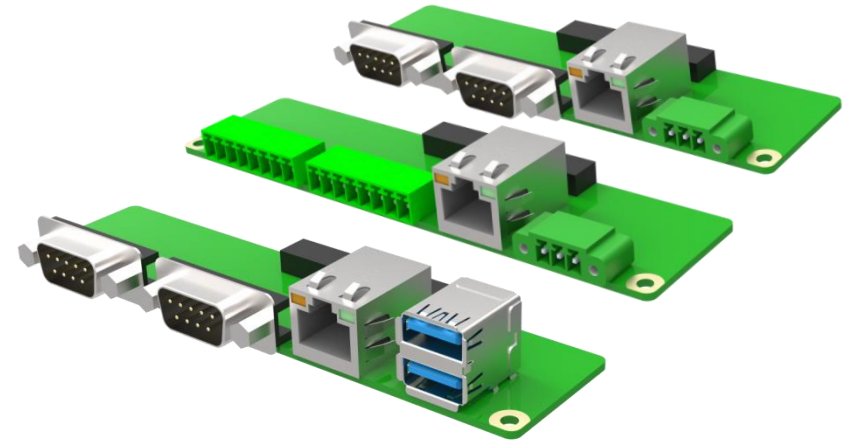
- Type A / B expansion
- RS-485 x1,  
RS-232 x1,  
8GPIO
- 126 x 31 mm

19,Q2

■ MP

■ Developing

■ Planning





# RSB-3430 & UIO Card Product Development schedule

- Development Schedule
  - EVT : Mar., 2019
  - PVT : May, 2019
  - MP : Jun., 2019

*Go Together,  
We Go Far and Grow Big*

