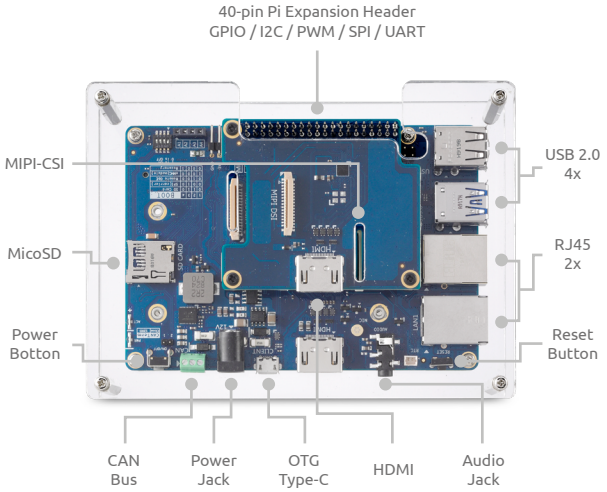
I-Pi SMARC PX30

Industrial Prototyping Kit for IoT with Off-the-Shelf SMARC Computer-on-Module



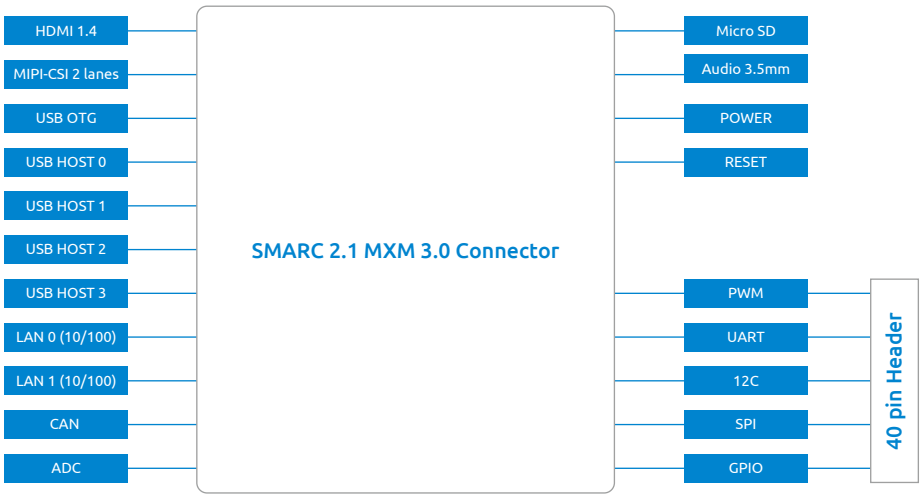
Features

- Based on Rockchip PX30 quad-core ARM Cortex-A35 CPU and Mali-G31 GPU
- Equipped with SMARC module specially designed for industrial embedded applications requiring long life, high MTBF and strict revision control
- Industrial grade quality and 10 year product availability
- Includes everything needed to go live in minutes
- Supports Android, Debian, Ubuntu and Yocto OS

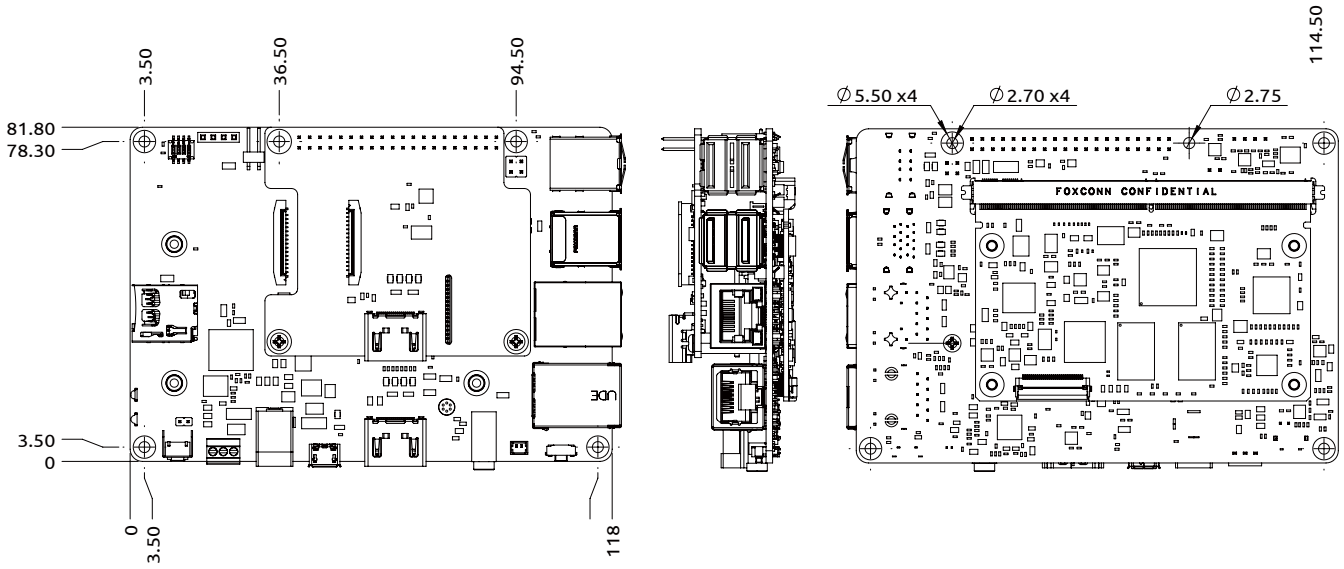
Specifications

Core System	
SoC	Rockchip PX30 Quad
Architecture	ARM Cortex-A35
Memory	2GB DDR3L
IoT Security	Cryptographic co-processor Protected Storage for up to 16 keys ECDH: FIPS SP800-56A P256 / SHA-256 & HMAC / AES-128
Ethernet	
LAN	2x 10/100 Mbps Fast Ethernet
Audio	
Codec	ES8316
Video	
GPU Core	Mali-G31
Video Decoding	H.264 up to 1080p@60fps
Video Encoding	H.264 at 1920x1080@30fps
Camera	MIPI CSI (4 data lanes)
I/O Interfaces	
40-pin Expansion Header	GPIO / I2C / PWM / SPI / UART
Connectors	
Display	1x HDMI
Audio	1x 3.5mm Audio Jack
Network	2x RJ45
USB	4x USB 2.0 1x USB 2.0 OTG Type-C
CAN Bus	1x Single
Buttons	1x Reset 1x Power
SD Card Slot	1x microSD
Power	
Input	12V+/-5% DC
Connector	DC Jack
Operating Systems	
Standard Support	Android / Debian / Ubuntu / Yocto
Mechanical and Environmental	
Form Factor Dimensions	SGET SMARC Specifications v2.0 SMARC short size module (82mm x 50mm)
Operating Temperature	Standard: 0°C to +60°C Rugged: -20°C to +85°C (optional)
Humidity	5-90% RH operating, non-condensing 5-95% RH storage
Shock and Vibration	IEC 60068-2-64 and IEC-60068-2-27 MIL-STD-202 F Method 213B, Table 213-I, Condition A Method 214A, Table 214-I, Condition D
HALT	Thermal Stress, Vibration Stress, Thermal Shock and Combined Test

Functional diagram



Dimensional drawing



Ordering information

- **I-Pi SMARC PX30 (EU)**
  I-Pi SMARC development kit based on LEC-PX30 module including 32GB SD card, Micro USB cable and EU AC power adapter

- **I-Pi SMARC PX30 (US)**
  I-Pi SMARC development kit based on LEC-PX30 module including 32GB SD card, Micro USB cable and US AC power adapter

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