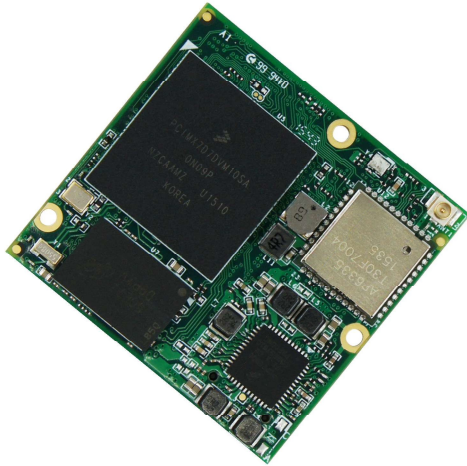


PICO-IMX7-EMMC



Main Features

- The PICO-IMX7-EMMC design based on the NXP i.MX7 processor is a purpose-built, small footprint hardware platform compatible with Intel Edison baseboards and adds a number of additional high-speed signals such as RMII LAN, USB and 24 bit TTL Display.
- ARM Cortex-A7 NXP i.MX7 scalable single/dual core System-on-Module
- WiFi 802.11ac and Bluetooth v. 4.0 communication interface



	EDISON					EXP-A		EXP-B			
Power	SDIO	I ² S	SPI	PWM		LVDS	RGMI	CAN	PCIe	HDMI	SATA
	USB OTG	UART	I ² C	GPIO		TTL		I ² C	USB HOST	MIPI	

Specifications

Core System

CPU	NXP i.MX7 Solo @ 800 MHz/Dual @ 1GHz
Technology	ARM Cortex-A7 + M4
System Memory	up to 2GB DDR3
Storage	Onboard eMMC (default 4GB)

Connectivity

Network	RMII	Signals routed to connector
WiFi		Broadcom BCM4339 802.11ac
Bluetooth		Broadcom BCM4339 BT 4.0

I/O Interface Signalling

Edison I/O	GPIO
	PWM
	I ² C
	I ² S
	SPI
	UART
	USB-OTG
	SDIO (4-bit)
Additional I/O	24-bit TTL RGB
	RMII LAN
	CAN
	USB Host
	I ² C
	MIPI

Video

PXP	Image re-sizing, rotation, overlay and CSC Pixel Processing Pipeline
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Audio

Interface	I ² S (2 channel)
Audio Codec	on Carrier Board

Power Specifications

Input Power	4.2-5.25V DC
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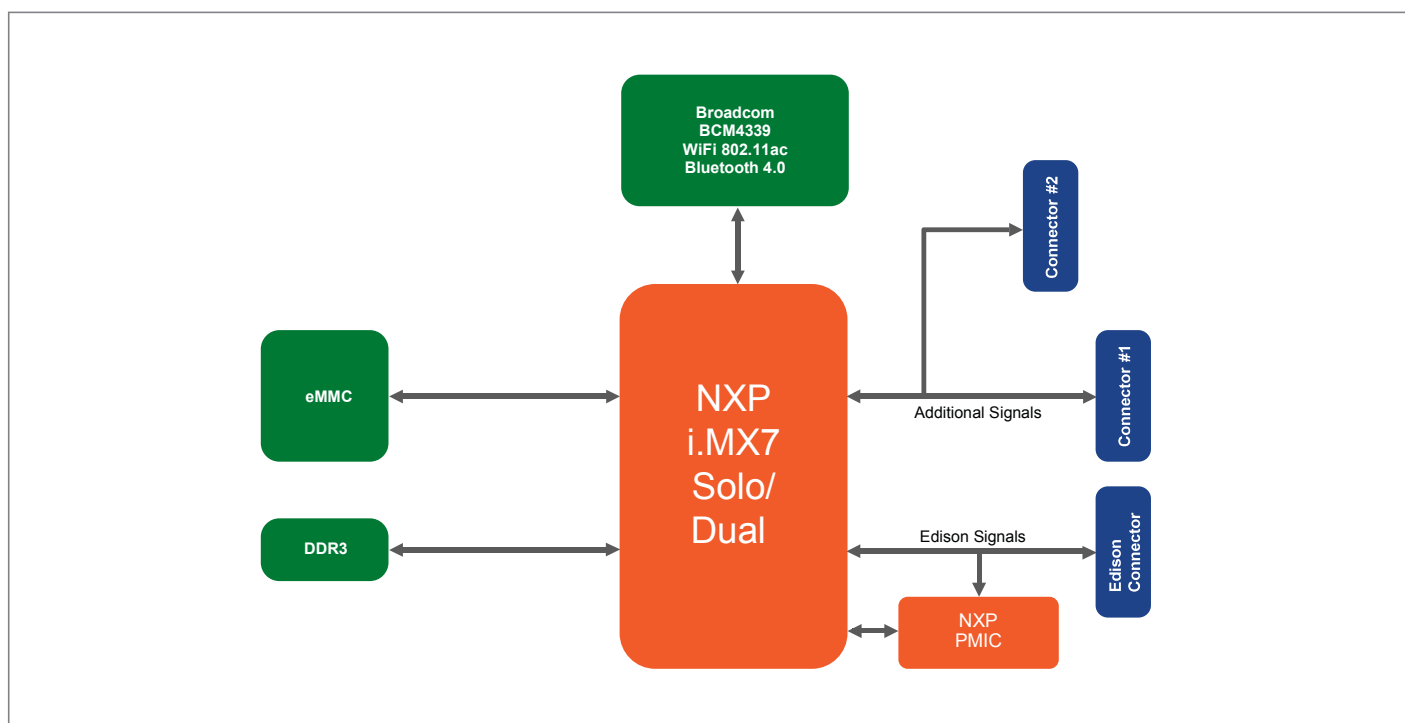
Connectors

Board-to-Board	Edison compatible connector (Hirose 70-pin) Hirose 70-pin connectors
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Operation Systems

Standard Support	Linux, Yocto, Android, Ubuntu
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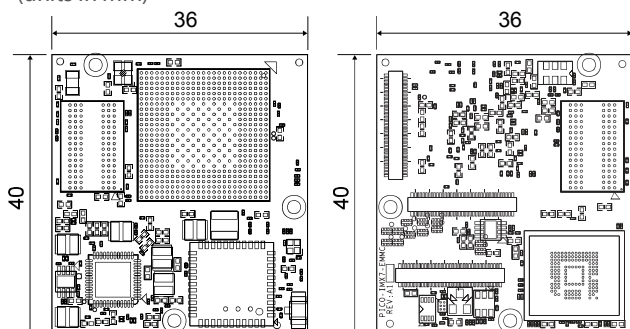
Block Diagram



Environmental and Mechanical

Temperature	Commercial : 0° to 60° C Extended : -20° to 70° C Industrial : -35° to 85° C (no WiFi)
Humidity	10 to 90%
Dimensions	36 x 40 mm 1 3/8 x 1 5/8 inch
MTBF	>100,000 hours
Weight	8 grams
Shock	50G/25ms
Vibration	20G/0-600 Hz

Dimensions (units in mm)



Ordering Information

PICOIMX7SR05E04

PICO SOM NXP I.MX7 SOLO 800MHZ + 512MB RAM + 4GB EMMC

PICOIMX7SR05E04BW

PICO SOM NXP I.MX7 SOLO 800MHZ + 512MB RAM + 4GB EMMC + 802.11AC + BLUETOOTH 4.0

PICOIMX7DR05E04

PICO SOM NXP I.MX7 DUAL 1GHZ + 1GB RAM + 4GB EMMC

PICOIMX7DR05E04BW

PICO SOM NXP I.MX7 DUAL 1GHZ + 1GB RAM + 4GB EMMC + 802.11AC + BLUETOOTH 4.0

Available Development Kits

PICOHBIMX7DR05E04BW

PICOHOBBITGL WITH PICO SOM NXP I.MX7 DUAL 1GHZ + 1GB RAM + 4GB EMMC + 802.11AC + BLUETOOTH 4.0

PICOHBIMX7SR05E04BW

PICOHOBBITGL WITH PICO SOM NXP I.MX7 SOLO 800MHZ + 512MB RAM + 4GB EMMC + 802.11AC + BLUETOOTH 4.0

* Feel free to contact us for custom tailored Carrier Board request for your projects.