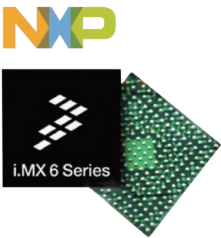




Fanless Embedded Box PC Based on NXP i.MX 6 Series CPU with RS232/485, Dual Display and GPIO Function

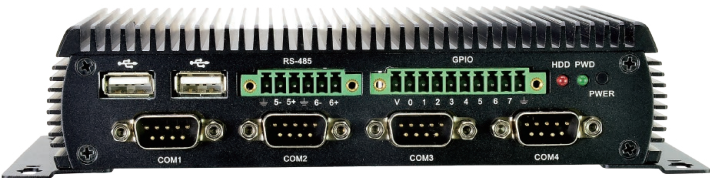
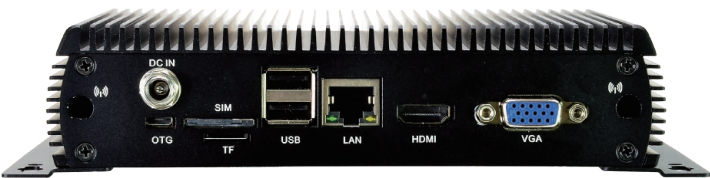


- NXP i.MX 6DualLite 1.0Ghz (NXP i.MX 6Solo/NXP i.MX 6Dual/NXP i.MX 6Quad optional)
- Onboard 1GB DDR3 RAM and 8G eMMC (default)
- Support 1 x mini PCIe, 4 x RS232, 1 x RS485, 8 x GPIO
- Support dual display: VGA/HDMI
- Supports Yocto 2.5.2, Ubuntu 16.04, Android 9.0
- Slim vent-hole free with dustproof and fanless aluminum enclosure



Front view

Back view



Ordering Information

Part Number	CPU	RAM	Storage	Display	GbE	USB	Audio	Mini-PCIe	SATA	Operating Temp
BPC-iMX6Se-01	NXP i.MX6 Dual Lite 1.0GHz	1GB DDR3	8GB eMMC	HDMI + VGA	1	4 x USB 2.0 1 x Micro USB	1	1	2	-20~70°C

Introduction

The BPC-iMX6Se-01 is a small form factor fanless embedded PC based on NXP i.MX 6 Series processors. The system supports one Gigabit LAN, four RS232, one RS485, eight port GPIO, and also a wide array OS options including Yocto embedded Linux, Ubuntu Linux and Android, making it well-suited to a range of in-field applications. The rich I/Os and slim fanless design fits perfectly for digital signage, kiosk, network security, IoT gateway and other industrial computer applications.

Technical Specifications

System	
Processor	NXP i.MX 6DualLite 1.0Ghz (Default) Also support NXP i.MX 6Solo/NXP i.MX 6Dual/NXP i.MX 6Quad
Architecture	ARM Cortex-A9
Memory	Onboard 1GB DDR3(Default), up to 2GB
Storage	eMMC 8GB Default, 16GB/32GB(option)
Operating System	Yocto 2.5.2, Ubuntu 16.04, Android 9.0
Connectivity	
LAN	1 x RJ45 AR8033
WiFi	1 x RTL8188WEUS
Bluetooth	1 x RTL8723 (optional)
External Connectors	
USB Host	4 x Type A USB2.0
SIM Card Slot	1 x SIM
SD Card Slot	1 x microSD card slot
USB OTG	1 x Micro USB
RS-232 COM	4
RS-485	1
GPIO	8
Internal Connectors	
SATA	2
Mini PCIE	1 full length mini PCIE
Display	
VGA	1
HDMI	1
Power Supply	
Power Input	12V DC
Power Consumption	Depending on Configuration
Mechanical & Environment	
Enclosure Material	Stainless Steel + Aluminum
IP Rating	IP69K
Dimensions	169.42 (W) x 38.9 (H) x 124 (D) mm
Size	146mm x 102mm (L x W)
Gross Weight	780 grams
Temperature	Industrial: -20° to +70° C
Relative Humidity	10 to 90 %
MTBF	>50 000 Hours
Shock	15G half-sine 11 ms duration
Vibration	1 Grms random 5-500Hz hr/axis
Certification	Compliant with CE / FCC / RoHS / REACH directives

ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9- year 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, Allwinner 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.

