



Features | Name

Low Cost

Full Featured

Embedded Imaging

Module	phyCORE-i.MX 6	phyCORE-i.MX 6	phyCORE-i.MX 6
Operating System	Linux (Yocto)	Linux (Yocto)	Linux (Yocto)
SOM Mounting	Connector insertion	Connector insertion	Connector insertion
CPU	i.MX 6Solo	i.MX 6Quad	i.MX 6Quad
Clock Frequency	1 GHz	4x 1 GHz	4x 1 GHz
Memory	512 MB NAND, 256 MB RAM, 4 kB EEPROM	1 GB NAND, 1 GB RAM 64 Bit, 16 MB NOR, 4 kB EEPROM	1 GB NAND, 1 GB RAM 64 Bit, 16 MB NOR, 4 kB EEPROM
INTERFACES			
Ethernet	1x 10/100 Mbit/s	1x 10/100/1000 Mbit/s	1x 10/100/1000 Mbit/s
USB	1x Host, 1x Host/OTG	1x Host, 1x Host/OTG	1x Host, 1x Host/OTG
Serial	1x RS232	1x RS232	1x RS232
CAN	-	CAN non-isolated	CAN non-isolated
PCIe	-	1x miniPCIe	1x miniPCIe
Camera	-	1x Serial (phyCAM-S+)	1x Serial (phyCAM-S+ incl. camera VM-010-BW-LVDS-M12 and M12 lens 12 mm)
HDMI	1x	1x	1x
Mass Memory	microSD Card Slot	microSD Card Slot	microSD Card Slot
EXPANSION & CONFIGURATION			
Expansion Bus	I ² C, 2x SPI, UART, JTAG, SD, SATA	I ² C, 2x SPI, UART, JTAG, SD, SATA	I ² C, 2x SPI, UART, JTAG, SD, SATA
Digital I/O	via Expansion Bus	via Expansion Bus	via Expansion Bus
Audio	I ² S via A/V Connector	I ² S via A/V Connector	I ² S via A/V Connector
WiFi	via optional WiFi Adapter PEB-WLBT-01	via optional WiFi Adapter PEB-WLBT-01	via optional WiFi Adapter PEB-WLBT-01
User Control Elements	1x Reset Button	1x Reset Button	1x Reset Button
Boot source	NAND, SD	NAND, SD	NAND, SD
RTC	RTC with Gold Cap Backup	RTC with Gold Cap Backup	RTC with Gold Cap Backup
Display & Touch	-	LVDS, via optional Display Adapter PEB-AV-02	LVDS, via optional Display Adapter PEB-AV-02
Backlight	-	Input voltage of Power Adapter	Input voltage of Power Adapter
Resistive Touch	-	Pin header, via optional Display Adapter PEB-AV-02	Pin header, via optional Display Adapter PEB-AV-02
Capacitive Touch	-	I ² C via A/V Connector	I ² C via A/V Connector
Power Supply	5 V	12-24 V via Power Adapter	12-24 V via Power Adapter
Dimensions	100 x 72 mm (Pico-ITX)	100 x 72 mm (Pico-ITX)	100 x 72 mm (Pico-ITX)
Temperature Range	0°C...+70°C	-40°C...+85°C	-40°C...+85°C
Part Number	KPB-01501-001	KPB-01501-002	KPB-01501-Video
Kit Content	phyBOARD-Mira i.MX 6Solo, Debug Adapter, Quickstart Instructions, Linux Yocto BSP	phyBOARD-Mira i.MX 6Quad, Debug Adapter, Power Adapter, Quickstart Instructions, Linux Yocto BSP	phyBOARD-Mira i.MX 6Quad, Debug Adapter, Power Adapter, Camera module with lens mount, lens, LVDS Camera cable, Power Supply, Quickstart Instructions, Linux Yocto BSP
Sample Price*	€ 74,00	€ 149,00	€ 224,00
Volume Price* (1K)	€ 78,00	€ 155,00	

* All Prices excl. VAT