

Starter Kit i-PAN M7 CoverLens

for Myon I, Myon II and Myon II Nano CPU Modules

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Computing Units based on Myon I, Myon II or Myon II Nano CPU modules and i-PAN M7 Baseboard

Processor	Myon I: Qualcomm® Snapdragon™ 410E Quad-core Arm® Cortex A53 to 1.2GHz (APQ8016E), Qualcomm® Adreno™ 306 400MHz GPU Myon II: NXP™ i.MX 8M Mini Quad-Core Arm® Cortex™ A53 up to 1.8GHz, integrated Arm® Cortex™ M4 Myon II Nano: NXP™ i.MX 8M Nano Quad-Core Arm® Cortex™ A53 up to 1.5GHz, integrated Arm® Cortex™ M7
RAM Memory	Myon I: 1 GByte LPDDR3-1066 (533 MHz), 32 Bit, 2 GByte on request Myon II: Up to 8 GByte LPDDR4-3200 RAM, 32 Bit Myon II Nano: Up to 8 GByte LPDDR4-3200 RAM, 16 Bit
Flash Storage	Myon I: 8 GByte eMMC, 16 GByte on request Myon II and Myon II Nano: 8 Bit wide eMMC, available in different memory sizes

Features

Display	7.0" TFT-Display, 800 x 480 pixel, 850 cd/qm, projected capacitive touchscreen LCD, 1.8 mm glass front
Interfaces FF version (Full Function)	USB2.0 Host, µUSB2.0 OTG, RJ45 10/100 Mbit Ethernet, µSD Card Socket, Realtime Clock with Backup battery, LED, Powerfail Detection
Wireless Communication (on Myon I SOM)	With Myon I: WiFi 802.11 b/g/n 2.4 GHz, Bluetooth 4.1, GPS With Myon II and Myon II Nano: no WiFi/Bluetooth/GPS

Expandability for Breakout-Boards

Extension interfaces (FF version)	FFC connectors with USB, I2C, UART, Keys, Camera (Raspberry Pi), Battery (optional) / Solderpads for Speaker, Headphone, Microphone
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General Details

System Software	UEFI, LK / Windows 10 IoT Core – Linux, Android
Voltage Supply	Industrial +12 up to 24V supply / Power over Ethernet (POE) / only with Myon I: LiPo battery supply (optional)
Operating Temperature	-20°C to 70°C
Dimensions	250 x 200 x 120 mm (W x H x D)
Include	7.0" Touchdisplay with cover lens, i-PAN M7 Baseboard (FF Version with POE), Myon SOM (I, II or II Nano, LVDS versions), i-MOD RS232 adaptation board (incl. FFC cable), OS Image, Power Supply, Acrylic Glass Stand with Microphone and Loudspeaker



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