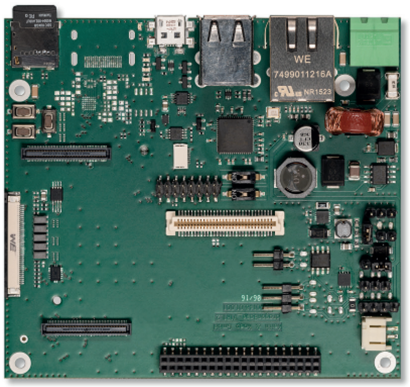
Myon MicroModule SOM

Carrier Board

ConXM
by Keith & Koep

MicroModule Carrier Board for Myon SOMs

Carrier Board for Myon I, Myon II and Myon II Nano SOMs



HIGHLIGHTS

- Evaluation platform for IoT/handheld devices
- Supports LVDS, HDMI, MIPI Display/Camera
- Peripherals: direct access via standard connectors e.g. Ethernet, USB
- Expansion connectors compatible with DragonBoard 410c

Windows 10 IoT Core · Linux · android

MAIN FIELDS OF APPLICATION

Automation · Biomedical/ Medical devices · Digital signage - Infotainment · Edge Computing · Energy · HMI · Home Automation · Industrial Automation and Control · Info Kiosks · Internet of Things · Measuring instruments · Point of Sales · Portable devices · Thin clients · Vending

FEATURES

Processor	Defined by compatible Myon SOMs • Qualcomm® SnapdragonTM 410E Cortex A53, QuadCore up to 1.2GHz on Myon I SOM • NXP i.MX 8M Mini ARM Cortex A53 up to 1.8 GHz, up to Quad Core, integrated ARM Cortex M4 on Myon II SOM • NXP i.MX 8M Nano ARM Cortex A53 up to 1.5 GHz, up to Quad Core, integrated ARM Cortex M7 on Myon II Nano SOM
Video Interfaces	LVDS, HDMI
Mass Storage	µSD Card Socket
Networking	10/100 Mbit Ethernet RJ45 Connector WLAN 802.11 b/g/n 2.4GHz, Bluetooth via Myon I
USB	USB2.0 Host, USB2.0 OTG
Audio	Footprint for one optional 16-pin analog expansion connector for stereo headset/line-out, speaker and analog line-in
Serial Ports	UART (low speed expansion connector)
Other Interfaces	1x 40-pin low speed expansion connector (compatible to DragonBoard 410c): SPI, I2S, 2x I2C,12x GPIO, DC power 1x 60-pin high speed expansion connector (compatible to DragonBoard 410c): 4L MIPI-DSI, USB, 2x I2C, 2L+4L MIPI-CSI
Power Supply	Industrial +12 up to +24V supply, +5V (USB) / Lithium-ion, lithium-ion-polymer battery-charger / Coin-Cell charger (Myon I PMIC)
Operating System	Microsoft Windows 10 IoT Core Linux Android

Operating Temperature*	-20 ÷ 85°C
Dimensions	100.0 mm x 90.0 mm x 18.0 mm

*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.

BLOCK DIAGRAM