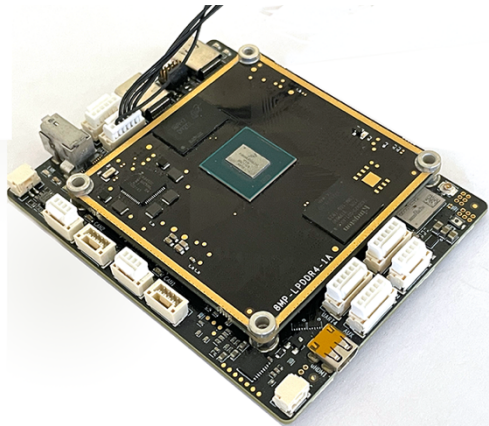# NXP 8M Plus NAVQ+
Companion Computer for Mobile Robotics

NXP 8M Plus NavQ+ Starter Kit

The NXP 8M Plus NavQ+ Starter Kit is a reference mission computer design for mobile robotics and similar applications.

- Integrated with the i.MX 8M Plus SOM.

- Linux pre-loaded to allow immediate development of mobile robotics applications.

- Supports the NXP Mobile Robotics ecosystem of 2 wire automotive Ethernet, Flight controllers, battery management and CAN hubs.

The NXP 8M Plus NavQ+ starter kit is assembled as a two-board stack:

- **Emcraft i.MX 8M Plus System-On-Module (SOM):**
  i.MX 8M Plus Quad, 8GB LPDDR4, 32GB eMMC, Commercial Temp range. The SOM is an off-the-shelf embedded computer module, which comes pre-loaded with Linux, allowing for immediate development of mobile robotics applications.

- **The NAVQ+ Base Board**, which provides various UI, multimedia and I/O interfaces, specifically: 2 USB 3.0, WiFi/BT, Gigabit Ethernet, 2 MIPI CSI, MIPI DSI, 2 LVDS, PCIe, 2 CAN, HDMI, 100BASE-T1 Automotive Ethernet, NFC.

Software and Platform Solutions

Emcraft supports a number of platform solutions based on the i.MX 8M Plus SOM and the NAVQ+ embedded computer:

- Support for the ROS2 (Robot Operating System)

- SLAM (Simultaneous Localization and Mapping)

- Enhanced object avoidance using an additional PMD Flexx2 camera.

Visit Emcraft web site for more information: https://emcraft.com/products/1222