

Linux on SMARC

This is the home of the Linux on SMARC space. From these links you will find quick instructions for getting Linux running on these development boards.

SMARC Development Boards:

- EVK-SMARC-T335X
- EVK-STD-CARRIER
- EVK-STD-CARRIER-S20

NXP *i.MX8 QuadMax/QuadPlus* Series:

Standalone Build

- SMARC-iMX8 (U-Boot 2022.04 and Linux Kernel 5.15.71)
- SMARC-iMX8 (U-Boot 2020.04 and Linux Kernel 5.4.70_2.3.0, QuadMax and QuadPlus cores)

NXP *i.MX8M Plus* Series:

Debian

- Debian 11 Bullseys for SMARC-iMX8MP (U-Boot 2020.04 and Linux Kernel 5.10.9_1.0.0, Quad and Dual cores)

Standalone Build

- SMARC-iMX8MP (U-Boot 2022.04 and Linux Kernel 5.15.71)
- SMARC-iMX8MP (U-Boot 2020.04 and Linux Kernel 5.10.9_1.0.0, Quad and Dual cores)

NXP *i.MX8M* Series:

Debian

- Debian 11 Bullseye for SMARC-iMX8M (U-Boot 2020.04 and Linux Kernel 5.10.9_1.0.0, Dual, Quad Lite and Quad Core)
- Debian 10 Buster for SMARC-iMX8M (U-Boot 2019.04 and Linux Kernel 4.19.35_1.0.0, Dual, Quad Lite and Quad Core)
- Debian 9 Stretch for SMARC-iMX8M (U-Boot 2018.03 and Linux Kernel 4.14.78_1.0.0_ga, Dual, Quad Lite and Quad Core)

Standalone Build

- SMARC-iMX8M (U-Boot 2022.04 and Linux Kernel 5.15.71)
- SMARC-iMX8M (U-Boot 2020.04 and Linux Kernel 1f-5.10.y, Dual, Quad Lite and Quad Core)
- SMARC-iMX8M (U-Boot 2020.04 and Linux Kernel 5.4.24_2.1.0, Dual, Quad Lite and Quad Core)
- SMARC-iMX8M (U-Boot 2019.04 and Linux Kernel 4.19.35_1.0.0, Dual, Quad Lite and Quad Core)
- SMARC-iMX8M (U-Boot 2018.03 and Linux Kernel 4.14.98_2.0.0_ga, Dual, Quad Lite and Quad Core)
- SMARC-iMX8M (U-Boot 2018.03 and Linux Kernel 4.14.78_1.0.0_ga, Dual, Quad Lite and Quad Core)
- SMARC-iMX8M (U-Boot 2017.03 and Linux Kernel 4.9.51_imx8m_ga, Dual, Quad Lite and Quad Core)

FreeRTOS (for Cortex-M4)

- MCUXpresso 2.8.0

NXP *i.MX8M Mini* Series:

Debian

- Debian 10 Buster for SMARC-iMX8MM (U-Boot 2019.04 and Linux Kernel 4.19.35_1.0.0)
- Debian 9 Stretch for SMARC-iMX8MM (U-Boot 2018.03 and Linux Kernel 4.14.78_1.0.0_ga)

Standalone Build

- SMARC-iMX8MM (U-Boot 2022.04 and Linux Kernel 5.15.71)
- SMARC-iMX8MM (U-Boot 2020.04 and Linux Kernel 5.4.24_2.1.0)
- SMARC-iMX8MM (U-Boot 2019.04 and Linux Kernel 4.19.35_1.0.0)
- SMARC-iMX8MM (U-Boot 2018.03 and Linux Kernel 4.14.98_2.0.0_ga)

FreeRTOS (for Cortex-M4)

- MCUXpresso 2.8.0

NXP *i.MX7* Series:

- SMARC-FiMX7 (U-Boot 2022.04 and Linux Kernel 5.15.71)
- SMARC-FiMX7 (Solo and Dual Core)

NXP *i.MX6* Series:

- SMARC-FiMX6 (U-Boot 2022.04 and Linux Kernel 5.15.71)
- SMARC-FiMX6 (U-Boot 2018.03 and Linux Kernel 4.14.98_2.0.0_ga)

Texas Instrument Sitara *AM437X* Series:

- SMARC-T437X

Texas Instrument Sitara *AM335X* Series:

- SMARC T335X