

Linux Board Support Package for an IMX8 based SMARC Module

01 BUSINESS REQUIREMENT:

- To develop and deploy Yocto Linux BSP for dual SOM SMARC module based on i.MX8
- Automate board bring up tests
- Improve security for protecting sensitive data
- Dual SOM support for separating multimedia and application process

02 OUR SOLUTION:

- Hardware bring-up and functional validation of iMX8QM SoM
- Automation support through Pytest as the framework and Selenium tool for web automation
- OS Hardening, Disk Encryption and Secure boot support
- O/S Deployment and Software Update utility, via USB and network

- Yocto Kirkstone(4.0) Linux 5.15 BSP
- BCM53162 SDK
- Secure Boot, Pytest, Selenium and Jenkins

04 BUSINESS IMPACT



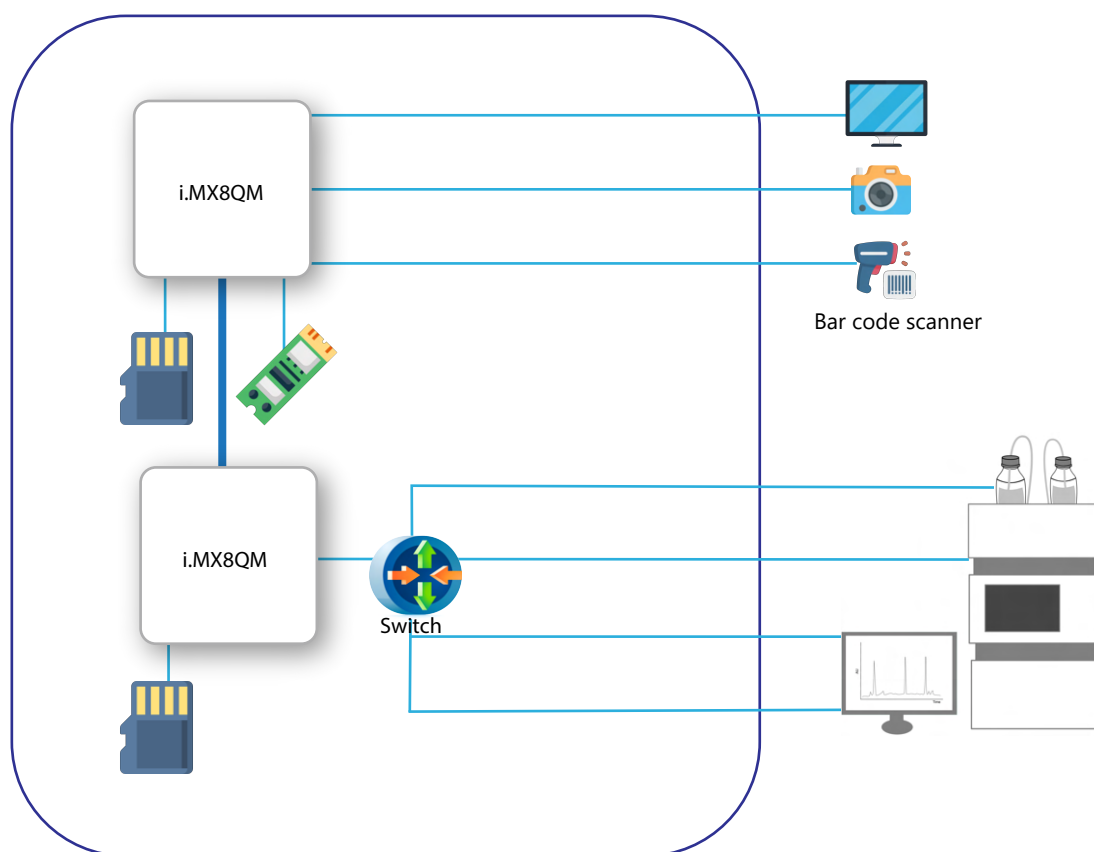
Dual SOM Solution ensures higher performance and multimedia support.



Automation support for board bring up greatly reduces testing time



Remote and Local firmware update methods provides high flexibility to update BSP components and firmware of the connected device



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About Happiest Minds Technologies

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