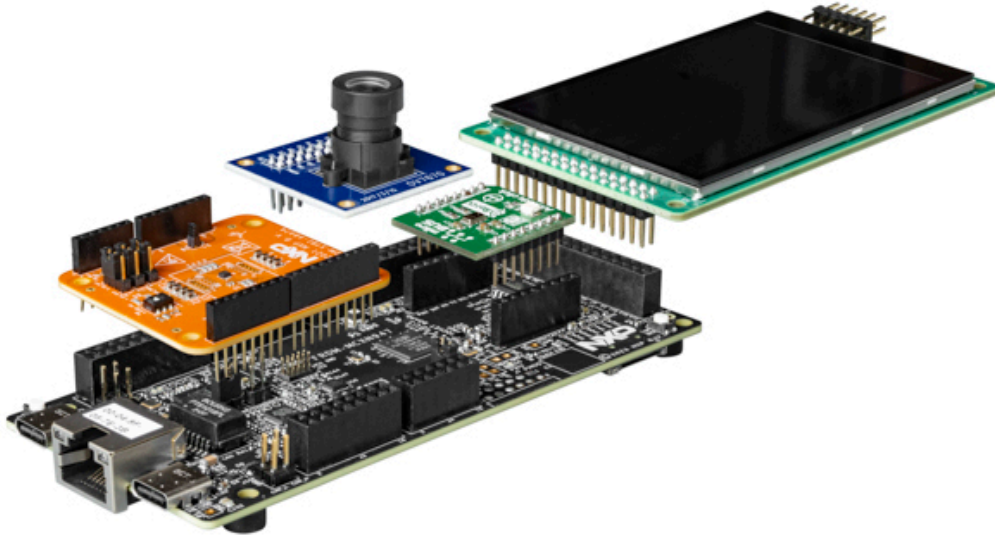# NXP FRDM ecosystem

Design without bounds

At NXP, we believe in empowering engineers with the FRDM to innovate. Whether you're an experienced developer or just getting started, our FRDM ecosystem offers low-cost hardware and software and tools to accelerate development and simplify prototyping.

FRDM to innovate =

software tools **+** **modular hardware** **+** **application code**

Software & Tools
Comprehensive software tools, including IDEs, MCUXpresso SDK, programming and secure provisioning, configuration tools, eIQ® for ML applications, and HMI design software, enable seamless prototyping and rapid development

Modular Hardware
Scale your project with modular, quick-start FRDM and expansion boards

FRDM Boards
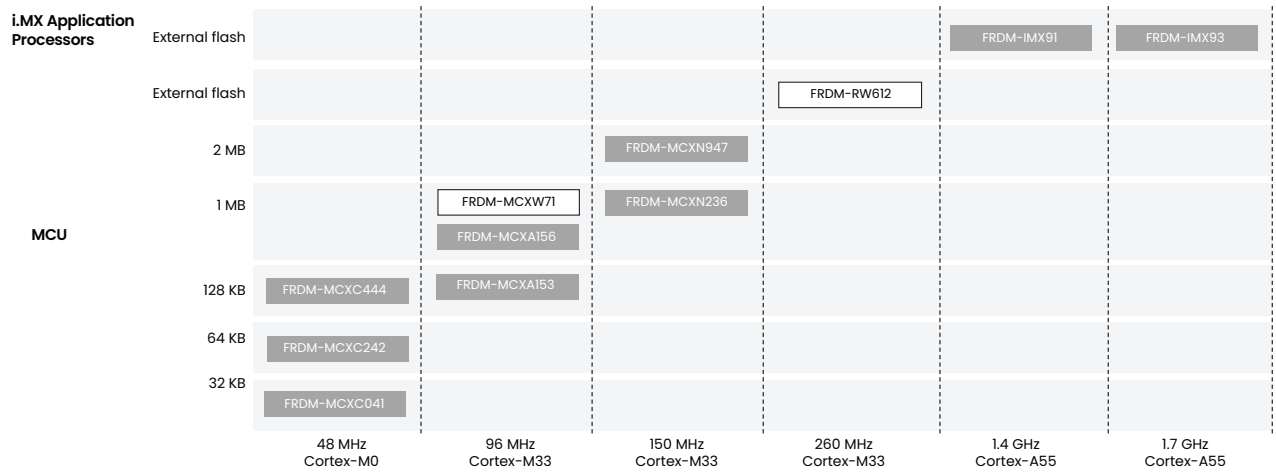Cost-effective development boards for fast prototyping & evaluation

Expansion Boards
Add-on boards to expand FRDM board features with software support from NXP & partners

Application Code
Leverage our application code hub or GoPoint to access 100+ code snippets, application notes, demos, and more

FRDM Boards scalability

		48 MHz Cortex-M0	96 MHz Cortex-M33	150 MHz Cortex-M33	260 MHz Cortex-M33	1.4 GHz Cortex-A55	1.7 GHz Cortex-A55
i.MX Application Processors	External flash					FRDM-IMX91	FRDM-IMX93
MCU	External flash				FRDM-RW612		
	2 MB			FRDM-MCXN947			
	1 MB		FRDM-MCXW71	FRDM-MCXN236			
			FRDM-MCXA156				
	128 KB	FRDM-MCXC444	FRDM-MCXA153				
	64 KB	FRDM-MCXC242					
	32 KB	FRDM-MCXC041					

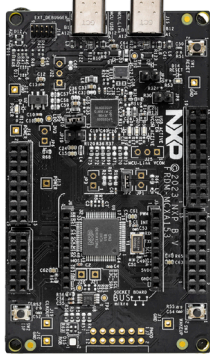## Flexible & Rapid Development Platform for MCUs & MPUs

General Purpose and Wireless MCUs

- MCU-Link debugger
- On-board sensors
- Ethernet*, USB, CAN*
- Common headers
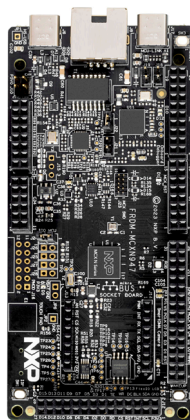 - Arduino®
  - FRDM*
  - Pmod™
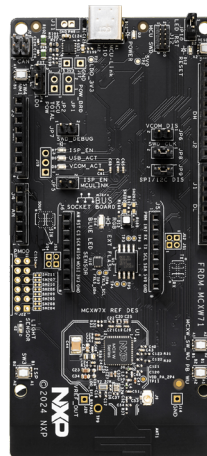 - mikroBUS™

* Optional

MPUs

- On-board wireless combo (Wi-Fi + Bluetooth Low Energy)
- Ethernet
- USB
- HDMI*
- MIPI DSI/CSI*
- M.2 connector*
- MicroSD card connector
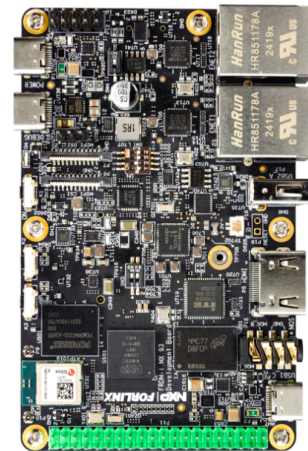- 40 pin Expansion Interface

MCU <100 pins

MCU <100 pins

Wireless MCUs

i.MX application processors

Visit nxp.com/FRDM