

## Embedded Systems Essentials with Arm: Getting Started

### Module 1

#### KV4 (1): Arm Cortex-M Series Family

Processor	Arm Architecture	Core Architecture	Thumb	Thumb-2	Hardware Multiply	Hardware Divide	Saturated Math	DSP Extensions	Floating Point
Cortex-M0	Armv6-M	Von Neumann	Most	Subset	1 or 32 cycle	No	No	No	No
Cortex-M0+	Armv6-M	Von Neumann	Most	Subset	1 or 32 cycle	No	No	No	No
Cortex-M3	Armv7-M	Harvard	Entire	Entire	1 cycle	Yes	Yes	No	No
Cortex-M4	Armv7E-M	Harvard	Entire	Entire	1 cycle	Yes	Yes	Yes	Optional
Cortex-M7	Armv7E-M	Harvard	Entire	Entire	1 cycle	Yes	Yes	Yes	Optional