

The table below gives a basic guide to the Hyperstone product families. More information is provided on the following pages.

Product	Applications	External Data Bus Width	Flash ICs	Timers/Resolution	Internal RAM (kB)	Boot ROM (kB)	Voltage Range	Operating Temperature	Packages	External Interfaces and Additional Features											
<b>E1-L16XSR</b>	General Purpose RISC + DSP, Multimedia, Telecoms.	16		2 1uS	16		2.5V+/-5%	0°C to +85°C	LQFP 100	DRAM, EDO-DRAM, SDRAM, DRAM Controller, DSP, Automatic power-down, PLL, Watchdog, EvKit.											
<b>E1-L32XSR</b>		32					LQFP 144														
<b>E2-LBL07</b>	General Purpose RISC + DSP, Sensing, Analogue Input Signal Processing.	32		2 1uS	32 DPRAM 8	8	1.8V+/-5% 3.3V+/-10%	0°C to +85°C	LQFP 144	Similar to E1 in 0.18µm with additional 10-bit successive approximation ADC with 8 multiplexed inputs, RTC, Programmable Serial Engine (up to 4 UART, I <sup>2</sup> C, I <sup>2</sup> S, SPI, PWM), EvKit.											
<b>F2-L16XT-FU5A</b>	CF Cards, IDE Flash Disks, DOM DOC, PCMCIA Cards.	16	10	2 1uS	16	8	5V +/--10% 3.3V+/-10%	0°C to +85°C	TQFP 100	PCMCIA 2.1, PC Card ATA, ATA 3, CF 1.3, ECC, Wear levelling, Automatic power-down and Sleep modes, Voltage regulators, True IDE modes.											
<b>F2-L16XN-FU5A</b>			16						TQFP 128												
<b>F2-IL16XN-FU5A</b>																					
<b>F3-LCT05</b>	High-speed CF/ATA Cards, Solid State Disks (SSD), IDE Flash Disks, DOM, DOC, PCMCIA Cards.	16	8	2 1uS	16	16	5V+/-10% 3.3V+/-10%	0°C to +85°C	TQFP 100	PCMCIA 2.1, PC Card: ATA, ATA 6, CF 3.0. 2 x channel, ECC, Wear levelling, Automatic Power-down and Sleep modes, Voltage regulators, PIO mode 6, MDMA mode 4, UDMA (true IDE) Mode 5.											
<b>F3-ILCT05</b>								-40°C to +85°C													
<b>F3-LCT06</b>								0°C to +85°C													
<b>F3-ILCT06</b>			16					2 1uS	16		16	16	5V+/-10% 3.3V+/-10%	-40°C to +85°C	TQFP 128						
<b>F4-LAT05</b>														16	16	16	16	16	5V+/-10% 3.3V+/-10%	0°C to +85°C	TQFP 100
<b>F4-LAT06</b>																				-40°C to +85°C	
<b>F4-ILAT06</b>									Supports both MLC and SLC.												
<b>S6-LAK05</b>	SD/MMC/MiniSD/MicroSD Cards, MMC, MMCmicro, RSMMC, Embedded Flash, eMMC.	8	4	2 1uS	20	16	1.65V 1.95V 2.7V 3.6V	-25°C to +85°C	LGA 54	SD 1.01, 1.1 and 2.0, MMC 3.31, 4.1 and 4.2. 2 x Channel, Pad-optimised for µSD, Serial interface to security chips. Available as KGD											
<b>hyNet XS-LCB09</b>	Real-time Ethernet, Networking, Telecommunications, Image control, Robotics, Communication, Access Points, Bridges.	32		1 timer 1 x 32-bit counter 2 x 16-bit counter	128kB SRAM, 16kB IRAM, 16kB DPRAM	8	1.8V/3.3V +/- 5%	-40°C to +85°C	TF-BGA 256	ATM Utopia/DSL, PCM/ISDN, CAN 2.0, USB 2.0 OTG, 1.1 Phy, YUV CCIR 656/100, SD/CF Host, PCMCIA, UART, SPI, IRDA, I <sup>2</sup> C/I <sup>2</sup> S Master/Slave, EvKit, 10/100 Ethernet, 2 MAC, 1 Phy.											
<b>hyNet S-LCB09</b>	IP-Cameras, Digital Video Recorders, Industrial Automation	32		1 timer 1 x 32-bit counter 2 x 16-bit counter	64kB SRAM, 16kB IRAM, 4kB DPRAM	8	1.8V/3.3V +/-5%	-40°C to +85°C	TF-BGA 256	SDRAM, SD/CF Host, PCMCIA, PCI 2.2, PCM/ISDN, Can 2.0, YUV CCIR 656/601, Ethernet 10/100, 1 x MAC, 2 x MII, UART, SPI, IRDA, I <sup>2</sup> C/I <sup>2</sup> S Master/Slave, EvKit.											

Product Prefix:

- L = RoHS compliant
- I = Industrial Temperature Range