

Application Note

IMX6 SolidRun Products Longevity

Document rev 1.0

Documentation Revision History

Date	Owner	Approved	Revision	Notes
15-December-2014	Ohad Barany	Kossy Omary	1.0	Initial release

Introduction

This Application Note notes the longevity of SolidRun IMX6 products.

This document refers to the below products:

uSOM:

P/N	Name	Description
usom01	SR-uSOM-MX6-C1000S-D512-FE	Single Core ARM A9, 512MB DDR3
usom02	SR-uSOM-MX6-C1000DL-D1024FE	Dual- Lite Core ARM A9, 1GB DDR3
usom03	SR-uSOM-MX6-C1000DM-D1024-GE	Dual Core ARM A9,1GB DDR3
usom04	SR-uSOM-MX6-C1000QM-D2048-GE	Quad Core ARM A9,2GB DDR3

HummingBoard:

P/N	Name	Description
hb01-b-000-00	HummingBoard-i1	single core ARM A9, 512MB DDR3, Carrier: Base
hb01-p-000-00	HummingBoard-i1-pro	single core ARM A9, 512MB DDR3, Carrier: Pro
hb02-b-000-00	HummingBoard-i2	Dual- Lite core ARM A9, 1GB DDR3, Carrier: Base
hb02-p-000-00	HummingBoard-i2-pro	Dual- Lite core ARM A9, 1GB DDR3, Carrier: Pro
hb03-p-000-00	HummingBoard-i2ex	Dual core ARM A9, 1GB DDR3, Carrier: Pro
hb04-p-000-00	HummingBoard-i4	Quad core ARM A9, 2GB DDR3, Carrier: Pro

CuBox-i:

P/N	Name	Description
cu01-b-000-00	CuBox-i1	Single core ARM A9, 4GB uSD , PWR adapter (US/ JP)
cu02-b-000-00	CuBox-i2	Dual- Lite core ARM A9, 4GB uSD , PWR adapter (US/ JP)
cu03-p-000-00	CuBox-i2ex	Dual core ARM A9, 4GB uSD , PWR adapter (US/ JP)
cu04-p-000-00	CuBox-i4Pro	Quad core ARM A9, 4GB uSD , PWR adapter (US/ JP)

Longevity

The above SolidRun products are based on IMX6 CPUs. SolidRun will supply its IMX6 products as long as Freescale ships its CPUs. Thus, the longevity of SolidRun IMX6 products are consistent with Freescale IMX6 CPUs longevity.

IMX6 was launched in November 2012.

The longevity of Commercial, Extended and Industrial CPUs is 10 years, up to November 2022.

The longevity of Automotive IMX6 is 15 years, up to November 2027 (can apply to the Medical market as well).

SolidRun is committed to stand in this longevity.

SolidRun standard End-of-Life notification policy is one-year notice for placement of final orders and an additional year until the last ship date.

Temperatures

The uSOM can be commercial / Extended/ Industrial graded.

The Commercial temperatures are (Tambient) from 0C to 60C.

The Extended temperatures are (Tambient) from -20C to 70C.

The Industrial temperatures are (Tambient) from -40C-85C

The IMX6 CPU temperatures are measured by its die temperatures (Tjunction).

The IMX6 Commercial graded temperatures (Tjunction) are from 0C to 95C.

The IMX6 Extended graded temperatures (Tjunction) are from -20C to 105C.

The IMX6 Industrial graded temperatures (Tjunction) are from -40C to 105C.

The IMX6 Automotive graded temperatures (Tjunction) are from -40C to 125C.

Be careful not to deviate those temperatures. Any deviation may damage the product lifetime. Pay attention especially to CPU, Crystals, Ethernet PHY, Power Management and DDR.

Also pay attention to the WiFi module which can stand in 0C-70C only.

The HummingBoard is commercial Graded. Pay attention to the USB HUB, Analog Audio, RTC and Battery.

The CuBox-I stands in 0C-40C.