

1. Function and Compatibility Test:

Test Environment	
DUT:	DUT#1
M/B:	M8M051-ECC-41QDI Rev.2 (021) (BSK400600001)
I/O Board:	i.MX8M debug board Rev.1 (011) (BSK063100005)
CPU:	NXPi.MX 8M Quad 1.3GHz
Memory:	On Board 4GB(LPDDR4-1866 SDRAM 32Gb(1024Mx32),MT53D1024M32D4DT-053 AIT:D/FBGA-200/MICRON)
eMMC:	On Board 16GB(eMMC 5.1,16G,-25°C~+85°C,SMD,FBGA-153,SDINBDG4-16G-I1/SANDISK)
Display:	On Board (using HDMI / LVDS)
SD Card:	Apear 64GB
Monitor:	LG / 27UL550
Panel:	AM-1024600DTZQW-TD1H(AMPIRE)
Power:	EA10521C-120
O.S.:	Linux Yocto 2.5(M8M051_YQ_0_1_243_20201127_0000_LPDDR4GB_HDMI.zip) Linux Yocto 2.5(M8M051_YQ_0_1_243_20201127_0000_LPDDR4GB_LVDS.zip)
Test tool:	dfi_unit_test_imx8_yocto2.5_20201208.zip
DUT:	DUT#2
M/B:	M8M051-ECC-21DLI Rev.2 (021) (BSK400500003)
I/O Board:	i.MX8M debug board Rev.1 (011) (BSK063100007)
CPU:	NXP i.MX 8M Dual 1.3GHz
Memory:	On Board 2GB(LPDDR4-4266 SDRAM 16Gb(512M*32),MT53D512M32D2DS-046 AIT:D/WFBGA-200/MICRON)
eMMC:	On Board 16GB(eMMC 5.1,16G,-25°C~+85°C,SMD,FBGA-153,SDINBDG4-16G-I1/SANDISK)
Display:	On Board (using HDMI / LVDS)
SD Card:	Apear 64GB
Monitor:	Asus / VE278Q 27
Panel:	AM-1024600DTZQW-TD1H(AMPIRE)
Power:	EA10521C-120
O.S.:	Linux Yocto 2.5(M8M051_YD_0_1_243_20201127_0000_LPDDR2GB_HDMI.zip) Linux Yocto 2.5(M8M051_YD_0_1_243_20201127_0000_LPDDR2GB_LVDS.zip)
Test tool:	dfi_unit_test_imx8_yocto2.5_20201208.zip
DUT:	DUT#3
M/B:	M8M051-ECC-41QDI Rev.A (0A1) (BML102500007)
CPU:	NXP i.MX 8M Quad 1.3GHz
Memory:	On Board 4GB(LPDDR4-3733 SDRAM 32Gb(1024Mx32), NT6AN1024F32AV-J2/FBGA-200/NANYA)
eMMC:	On Board 16GB(eMMC 5.1,16G,-25°C~+85°C,SMD,FBGA-153,SDINBDG4-16G-I1/SANDISK)
Display:	On Board (using HDMI)
Monitor:	Asus / VE278Q 27
Power:	EA10521C-120
O.S.:	Linux Yocto 2.5(M8M051_YQ_0_1_275_20210415_0000_LPDDR4GB.zip)

1.1 Linux Operating System Test:

Test Purpose	To confirm whether Linux environment supported
Test Procedure	1. Power on device 2. Check Device function 3. Shutdown Test 4. Run performance program 5. Check Power management function 6. Other function check
Test Criteria	It should be no problem for each test step

1.1.1 CPU / Memory information:

Test Purpose	To confirm whether power on without error
Test Procedure	1. Power On System 2. Check CPU information 3. Check memory information
Test Criteria	It should be no problem for each CPU/memory information

No.	Function	Result
1	CPU	Pass
2	Memory	Pass

1.1.2 Stability Test:

Test Purpose	Test stress function work normally under Linux
Test Procedure	1. Boot into Linux system 2. Run loop_play_video.sh 3 times 3. Run stressapptest.sh (CPU+Memory+eMMC) 12 hours
Test Criteria	It should be no problem for all test

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CPU:	NXP i.MX 8M Quad 1.3GHz
Memory:	On Board 4GB(LPDDR4-1866 SDRAM 32Gb(1024Mx32),MT53D1024M32D4DT-053 AIT:D/FBGA-200/MICRON)
eMMC:	On Board 16GB(eMMC 5.1,16G,-25°C~+85°C,SMD,FBGA-153,SDINBDG4-16G-I1/SANDISK)
Display:	On Board (using HDMI)
SD Card:	Apear 64GB
Monitor:	Asus / VE278Q 27
Power:	EA10521C-120
O.S.:	Linux Yocto 2.5(M8M051_YQ_0_1_243_20201127_0000_LPDDR4GB_HDMI.zip)
Test tool:	dfi_unit_test_imx8_yocto2.5_20201208.zip

No.	Function	Result
1	Loop play video	Pass
2	Stressapptest_CPU + Memory + eMMC	Pass

Test Environment	
DUT:	DUT#2
M/B:	M8M051-ECC-21DLI Rev.2 (021) (BSK400500003)
CPU:	NXP i.MX 8M Dual 1.3GHz
Memory:	On Board 4GB(LPDDR4-4266 SDRAM 16Gb(512M*32),MT53D512M32D2DS-046 AIT:D/WFBGA-200/MICRON)
eMMC:	On Board 16GB(eMMC 5.1,16G,-25°C~+85°C,SMD,FBGA-153,SDINBDG4-16G-I1/SANDISK)
Display:	On Board (using LVDS)
SD Card:	Apear 16GB
Panel:	AM-1024600DTZQW-TD1H(AMPIRE)
Power:	EA10521C-120
O.S.:	Linux Yocto 2.5(M8M051_YD_0_1_243_20201127_0000_LPDDR2GB_LVDS.zip)
Test tool:	dfi_unit_test_imx8_yocto2.5_20201208.zip

No.	Function	Result
1	Loop play video	Pass
2	Stressapptest_CPU + Memory + eMMC	Pass