DSAR IRAM Package Alpha Release 107_4_2_Candidate1

General

This IRAM package includes the following main features: Custom Classification (CC), Independent-Mode (IM), Host-Commands (HC) and Deep Sleep Auto Response (DSAR). For DSAR the following features are supported: ARP, ICMP, ND and SNMP. For more information see FMan-Controller RM chapter.

Availability

The package is currently available for the following devices.

Table 1. Package Availability by Device

Device	Version Number	Compiler version	Loader file name (.h .bin)
T1040 rev 1.0	107_4_2_Candidate1	—	t1040_r1.0.h fsl_fman_ucode_t1040_r1.0_107_4_2_Candidate1.bin

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Revision History

Table 2. Revision History for Alpha Release 107.4.2 Candidate1

Release Date: May 29, 2014	
New Features	None.
New Features (Not in spec)	None.
Spec Un-Supported Features	The following IP Acceleration features are not supported in this package: IP fragmentation, IP reassembly, Header Manipulation, Frame Replication. Please note that CC STD (statistics table descriptor) is supported.
Bug Fixes/CCB	This release is a result of integration with Linux environment and full power down management system testing. The following are the work-arounds implemented: • Set FMFP_BRKC[SLP] bit just before event of wake-up. • Eliminate internal syncbefore transmitting AR packets.
Known Issues	The following FMD updates to the deep sleep transition steps are: • The Auto-Response TX IM port is enabled during deep sleep and its FMBM_TFDNE set to NIA 0x005000C0 (BMI Release). • The FMFP_BRKC[SLP] is not set by the FMD instead it is set in firmware.
Restrictions	None.

Table 3. Revision History for Alpha Release 107.4.1

Release Date: May 13, 2014	
New Features	None.
New Features (Not in spec)	None.
Spec Un-Supported Features	The following IP Acceleration features are not supported in this package: IP fragmentation, IP reassembly, Header Manipulation, Frame Replication. Please note that CC STD (statistics table descriptor) is supported.

Release Date: May 13, 2014	
Bug Fixes/CCB	Following Errata were fixed: DSAR1:**SNMP: Intermittent incorrect UDP checksum on response packet.** DSAR2:**SNMP: The beginning of the frame is corrupted for the NOSUCHNAME response** DSAR3:**SNMP: The UDP checksum of the NOSUCHNAME response is not correct if response frame size exceed 256 bytes.** DSAR4:**SNMP: The Active Mode Hardware Parser NIA is not invoked for the case of set-request message is received.** DSAR5:**VLAN tagged frames are not matched correctly in the IP address tables. Frames with VLAN tags are considered mismatch in the IP/VLAN matching.**
Known Issues	None.
Restrictions	None.

Table 4. Revision History for Alpha Release 107.4.0

Release Date: March 30, 2014	
New Features	Deep Sleep Auto-Response: ARP, ICMP, ND and SNMP. Also provide AR Pass filter.
New Features for B4860/T4240	See above.
New Features (Not in spec)	None.
Spec Un-Supported Features	The following IP Acceleration features are not supported in this package: IP fragmentation, IP reassembly, Header Manipulation, Frame Replication. Please note that CC STD (statistics table descriptor) is supported.
Bug Fixes/CCB	None.
Known Issues	None.
Restrictions	None.

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