

QUICC Engine Packages Overview

General

This release note depicts the high level features of the IRAM Protocol Packages provided with the QUICC Engine on MPC8360/MPC8568/MPC8323/MPC8569/P1021. These IRAM based packages are released as part of the NCDD SW releases. For detailed description of each package refer to its relevant release note.

1 QUICC Engine RAM Protocol Packages Provided with NCDD Release 3.1

1.1 Package for MPC8569

NCDD SW Release 3.1 for 8569	
Release Name	8569Rev2_IRAM_1.0.0
Release Date	Jan 2010
Ethernet Termination	
Ethernet Hierarchical Scheduler	
ATM Termination	
ML/MC PPP Termination	
PPPMux	
ESS7 Termination	
POS Termination	
IMA	
A2E IW	
P2E IW	
E2E IW	
HC/Hdec IW	
HC/Hdec IW IP only	
IP Reassembly 2 Fragments	
IP Fragmentation	
Virtual Port IW	
Longest Prefix Match	
IP Security	
Burst Tolerance	
Virtual Port Thread Pool	
Destination Port Queue Select	
IW to 2 MCCs	
PQRL	

Table 1. Package for MPC8569

1.2 Single Protocol Termination Packages for MPC8360/MPC8568

NCDD SW Release 3.1 for 8360/8568				
Release Name	POS 0.1.0	SWUART 0.1.2	QMC_SCEn 0.0.0	QMC_SCDIs 0.0.0
Release Date	Feb-10	Feb-10	Feb-10	Feb-10
POS Termination MultiPHY				
POS Termination Single PHY				
SoftUART (fix for QE_UART6)				
QMC w/SUB channeling				
QMC wo/SUB channeling				

Table 2. Single Protocol Termination Packages

1.3 Interworking and Multiple Protocol Termination Packages for MPC8360/MPC8568

NCDD SW Release 3.1 for 8360/8568					
Release Name	PE_A_2.6.0	PE_B_2.8.1	PAE_C_1.4.1	PE_E_0.0.3	PE_I_0.0.0
Release Date	Feb 2010	Feb 2010	Feb 2010	Feb 2010	Feb 2010
Ethernet Termination					
Ethernet Hierarchical Scheduler					
ATM Termination					
ML/MC PPP Termination					
PPPMux					
ESS7 Termination					
POS Termination					
IMA					
A2E IW					
P2E IW					
E2E IW					
HC/Hdec IW					
HC/Hdec IW IP only					
IP Reassembly					
IP Fragmentation					
Virtual Port IW					
Longest Prefix Match					
IMA Link Counters					
Ethernet PQRL					
1588V2					

Table 3. Interworking and Multiprotocol Termination Packages

NCDD SW Release 3.1 for 8360/8568					
Release Name	AE_B_2.5.0	AE_G_0.0.1	AET_F_0.0.0	EE_POS_0.0.1	EE_D_1.1.0
Release Date	Feb 2010	Feb 2010	Feb 2010	Feb 2010	Feb 2010
Ethernet Termination					
Ethernet Hierarchical Scheduler					
ATM Termination					
ML/MC PPP Termination					
PPPMux					
ESS7 Termination					
POS Termination				MPHY Only	
IMA					
A2E IW					
P2E IW					
E2E IW					
HC/Hdec IW					
HC/Hdec IW IP only					
IP Reassembly					
IP Fragmentation					
Virtual Port IW					
Longest Prefix Match					
IMA Link Counters					
Ethernet PQRL					
1588V2					

Table 4. Interworking and Multiprotocol Termination Packages (cont.)

1.4 Packages for MPC8323

NCDD SW Release 3.1 for 8323					
Release Name	Slow QELite 1.0.2	UMCC QELite 0.0.0	QMC_SCEn 0.0.0	QMC_SCDIs 0.0.0	E2E WANGW 0.0.0
Release Date	Feb 2010	Feb 2010	Feb 2010	Feb 2010	Feb 2010
Slow Protocols					
UMCC					
QMC w/SUB channelling					
QMC wo/SUB channelling					
E2E WANGW					

Table 5. Packages for MPC8323

NOTE

UMCC is not available as part of General SW Release 3.1. Please contact Freescale if needed.

1.5 Packages for P1021

NCDD SW Release 3.1		
Release Name	P1021 Type A	P1021 Type B
Release Date	Feb 2010	Feb 2010
Slow Protocols		
Ethernet Termination		
Ethernet Hierarchical Scheduler		
ATM Termination		
ML/MC PPP Termination		
PPPMux		
ESS7 Termination		
IMA and IMA Link counters		
A2E IW		
P2E IW		
E2E IW		
HC/Hdec IW		
HC/Hdec IW IP only		
IP Reassembly		
IP Fragmentation		
Virtual Port IW		
Longest Prefix Match		
UMCC		
USB		
Enet Parser		
Policer		
IEEE1588 Enhancement		
HDLC		
Timer		
SAM		

Table 6. Packages for P1021

NOTE

UMCC is not available as part of General SW Release 3.1. Please contact Freescale if needed.

2 QUICC Engine RAM Protocol Packages Provided with NCDD Release 3.0

2.1 Single Protocol Termination Packages for MPC8360/MPC8568

NCDD SW Release 3.0 for 8360/8568				
Release Name	POS 0.0.4	SWUART 0.1.2	QMC_SCEn 0.0.0	QMC_SCDIs 0.0.0
Release Date	Aug-09	Aug-09	Aug-09	Aug-09
POS Termination MultiPHY				
POS Termination Single PHY				
SoftUART (fix for QE UART6)				
QMC w/SUB channeling				
QMC wo/SUB channeling				

Table 7. Single Protocol Termination Packages

2.2 Interworking and Multiple Protocol Termination Packages for MPC8360/MPC8568

NCDD SW Release 3.0 for 8360/8568								
Release Name	AE_B_2.3.1	PE_A_2.5.1	PE_B_2.8.1	PAE_C_1.4.0	EE_D_1.0.0	PE_E_0.0.3	AE_G_0.0.1	AET_F_0.0.0
Release Date	Aug 2009	Aug 2009	Aug 2009	Aug 2009	Aug 2009	Aug 2009	Aug 2009	Aug 2009
Ethernet Termination								
Ethernet Hierarchical Scheduler								
ATM Termination								
ML/MC PPP Termination								
PPPMux								
ESS7 Termination								
POS Termination								
IMA								
A2E IW								
P2E IW								
E2E IW								
HC/Hdec IW								
HC/Hdec IW IP only								
IP Reassembly								
IP Fragmentation								
Virtual Port IW								
Longest Prefix Match								

Table 8. Interworking and Multiprotocol Termination Packages

2.3 Packages for MPC8323

General SW Release 3.0 for 8323					
Release Name	Slow QELite 1.0.2	UMCC QELite 0.0.0	QMC_SCEn 0.0.0	QMC_SCDIs 0.0.0	E2E WANGW
Release Date	Aug 2009	Aug 2009	Aug 2009	Aug 2009	Aug 2009
Slow Protocols					
UMCC					
QMC w/SUB channeling					
QMC wo/SUB channeling					
E2E WANGW					

Table 9. Packages for MPC8323

NOTE

UMCC is not available as part of General SW Release 3.0. Please contact Freescale if needed.

2.4 Package for MPC8569

General SW Release 3.0 for 8569	
Release Name	8569 v166
Release Date	Aug 2009
Ethernet Termination	
Ethernet Hierarchical Scheduler	
ATM Termination	
ML/MC PPP Termination	
PPPMux	
ESS7 Termination	
POS Termination MultiPHY	
POS Termination Single PHY	
IMA	
A2E IW	
P2E IW	
E2E IW	
HC/Hdec IW	
HC/Hdec IW IP only	
IP Reassembly	
IP Fragmentation	
Virtual Port IW	
Longest Prefix Match	

Table 10. Package for MPC8569

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