

AN10311

Recommended PLL settings for PNX8525 (Viper1.0) and PNX8526 (Viper1.1)

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Application note

Document information

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Abstract	This Application Note describes recommended PLL settings for PNX8525 (Viper1.0) and PNX8526 (Viper1.1).

Revision history

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Contact information

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1. Introduction

This Application Note describes the recommended PLL settings for PNX8525 (Viper1.0) and PNX8526 (Viper1.1).

2. PLL settings PNX8525 (Viper1.0)

[Table 1](#) provides PNX8525 PLL values used for DVP testing with PNX8525 + 143 MHz SDRAM.

Table 1: PNX8525 PLL settings

Address	PLL	Use	Set at	Frequency	PLL Value	Fvco	Fpfd
1be47000	PLL0	Memory Bus	BOOTUP	143.1 MHz	0x330304	286.2	5.4
1be47004	PLL1	Fast Pi-Bus	BOOTUP	143.1 MHz	0x330304	286.2	5.4
1be47008	PLL2	MBS	RUNTIME (DVP)	99.9 MHz	0x230304	199.8	5.4
1be4700c	PLL3	Video MPEG	BOOTUP	99.9 MHz	0x230304	199.8	5.4
1be47010	PLL4	ICP	RUNTIME (DVP)	27 MHz	0x1e020c	216	6.75
1be47014	PLL5	ICP	RUNTIME (DVP)	27 MHz	0x1e020c	216	6.75

3. PLL settings PNX8526 (Viper1.1)

[Table 2](#) provides PNX8526 PLL values used for DVP testing with PNX8526 + 143 MHz SDRAM.

Table 2: PNX8526 PLL settings (143 MHz SDRAM)

Address	PLL	Use	Set at	Frequency	PLL Value	Fvco	Fpfd
1be47000	PLL0	Memory Bus	BOOTUP	143.1 MHz	0x350a00	143.1	2.7
1be47004	PLL1	Fast Pi-Bus	BOOTUP	143.1 MHz	0x350a00	143.1	2.7
1be47008	PLL2	MBS	RUNTIME (DVP)	99.9 MHz	0x250504	199.8	5.4
1be4700c	PLL3	Video MPEG	BOOTUP	99.9 MHz	0x250504	199.8	5.4
1be47010	PLL4	ICP	RUNTIME (DVP)	27 MHz	0x080404	54	6.75
1be47014	PLL5	ICP	RUNTIME (DVP)	27 MHz	0x080404	54	6.75

[Table 3](#) provides PNx8526 PLL values used for DVP testing with PNx8526 + 166 MHz SDRAM.

Table 3: PNx8526 PLL settings (166 MHz SDRAM)

These values are for TM=220 MHz, SDRAM = 166 MHz, confirmed on 14th March 2003.

Address	PLL	Use	Set at	Frequency	PLL Value	Fvco	Fpfd
1be47000	PLL0	Memory Bus	BOOTUP	164.7 MHz	0x3d0a00	164.7	2.7
1be47004	PLL1	Fast Pi-Bus	BOOTUP	164.7 MHz	0x3d0a00	164.7	2.7
1be47008	PLL2	MBS	RUNTIME (DVP)	99.9 MHz	0x250504	199.8	5.4
1be4700c	PLL3	Video MPEG	BOOTUP	99.9 MHz	0x250504	199.8	5.4
1be47010	PLL4	ICP	RUNTIME (DVP)	27 MHz	0x080404	54	6.75
1be47014	PLL5	ICP	RUNTIME (DVP)	27 MHz	0x080404	54	6.75

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