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Pin Electronics

Venus

Overview						Pin Electronics					PMU			Deskew		
Device	Description	# Channels	Status	Package	Pdq	F _{MAX} (MHz)	Driver	Comparator (V)	Load	DC Levels	PMU	DC Levels	I _{MAX} (mA)	Delay (ns)	FEA	Resolution (ps)
Venus	P/E + PMU + DAC + Deskew	2	Production	10x10 TQFP with exposed slug up	750mW/Channel	133	3 Level/ 8V	16	Resistive/ 14V	On Chip	1/ Channel	On Chip	32	8 to 20	±25% of Delay	15 to 37.5
Venus Plus	P/E + PMU + DAC + Deskew	2	Production	10x10 TQFP with exposed slug up	750mW/Channel	166	3 Level/ 8V	16	Resistive/ 14V	On Chip	1/ Channel	On Chip	32	8 to 13.3	±25% of Delay	15 to 26
Venus 2	P/E + PMU + DAC + Deskew	2	Pre-Production	10x10 TQFP with exposed slug up	1W/Channel	266	3 Level/ 8V	16	Resistive/ 14V	On Chip	1/ Channel	On Chip	32	8 to 16	±12.5% of Delay	15 to 30
Venus 3	P/E + PMU + DAC + Deskew	2	Pre-Production	10x10 TQFP with exposed slug up	1W/Channel	400	3 Level/ 8V	16	Resistive/ 14V	On Chip	1/ Channel	On Chip	32	6.4 to 12.8	±12.5% of Delay	12 to 25
Venus 4	P/E + PMU + Load + DAC + Deskew	2	Engineering Sample	10x10 TQFP with exposed slug up	600mW/Channel	400	3 Level/ 8V	16	Active/ ±24mA	On Chip	1/ Channel	On Chip	32	3.2 to 5.0	±50% of Delay	12 to 20
Venus 4 MLF	P/E + PMU + Load + DAC + Deskew	2	Engineering Sample	9x9 MLF TEP (Top Exposed Paddle)	600mW/Channel	400	3 Level/ 8V	16	Active/ ±24mA	On Chip	1/ Channel	On Chip	32	3.2 to 5.0	±50% of Delay	12 to 20

Non-Venus

Overview						Pin Electronics					PMU			Deskew		
Device	Description	# Channels	Status	Package	Pdq	F _{MAX} (MHz)	Driver	Comparator (V)	Load	DC Levels	PMU	DC Levels	I _{MAX} (mA)	Delay (ns)	FEA	Resolution (ps)
Mercury	P/E + PMU + DAC + Deskew	8	Production	14x20 TQFP with exposed slug up	350mW/Channel	50	2 Level/ 8V	16		On Chip	1/ Chip	On Chip	32	10 to 20	±25% of Delay	312.5 to 625
Saturn	P/E + PMU + DAC + Deskew + DPS	2	Pre-Production	14x20 TQFP with exposed slug up	1.5W/Channel	100	2 Level/ 24V	32	Active/ 24mA/32V	On Chip	1/ Channel	On Chip	200	10 to 20	±25% of Delay	312.5 to 625
Pluto	P/E + PMU + DAC	8	Production	14x20 TQFP with exposed slug up	500mW/Channel	5	2 Level/ 14V	16	Resistive 14V	On Chip	1/ Channel	On Chip	64 Gangable			
Pluto 2	P/E + PMU + DAC	8	Engineering Sample	14x20 TQFP with exposed slug up	125mW/Channel	10	2 Level/ 14V	16	Resistive 14V	On Chip	1/ Channel	On Chip	64 Gangable			

DPS/PMU/VI

Overview						PMU			
Device	Description	# Channels	Status	Package	Pdq	PMU	DC Levels	I _{MAX}	FV Range (V)
Neptune	PMU + DAC	2	Production	8x8 MLF with exposed slug down	300mW/Channel	1/Channel	On Chip	64mA Gangable	14
Pluto	P/E + PMU/VI + DAC	8	Production	14x20 TQFP with exposed slug up	500mW/Channel	1/Channel	On Chip	64mA Gangable	14
Pluto 2	P/E + PMU/VI/DPS + DAC	8	Engineering Sample	14x20 TQFP with exposed slug up	125mW/Channel	1/Channel	On Chip	64mA Gangable	14
Jupiter	DPS/VI/PMU	1	Pre-Production	10x10 TQFP with exposed slug up	1W/Channel	1/Channel	On Chip	1A Gangable	26
Triton	DPS/VI/PMU	8	Engineering Sample	14x20 TQFP with exposed slug up	350mW/Channel	1/Channel	On Chip	50mA	26

2

ATE ICs

Pin Drivers

Device	# of Drivers	Max Operating Frequency (MHz)	Peak Output I _{PK} (A)	Rise Time (ns)	Fall Time (ns)	Turn Off Delay (ns)	I _S (mA)	R _{ON} (Ω)	Input Signal Range (V)	Input Supply Range (V _P)	Max Input Signal (V)	Output Signal Range (V)	Max Output Signal Range (V)	Package
EL7154	1	10	3.5	20	20	20	2.5	1.5	0 to V _P	+5 to +18	16	-5 to +15.5	15.5	8 Ld PDIP, 8 Ld SOIC
EL7155	1	40	3.5	14.5	15	9.5	3	2	0 to V _P	+4.5 to +16	16	-5 to +16	16	8 Ld PDIP, 8 Ld SOIC
EL7156	1	40	3.5	14.5	15	9.5	3	2	0 to V _P	+4.5 to +16	16	-5 to +16	16	8 Ld PDIP, 8 Ld SOIC
EL7158	1	40	12	8	8	22	3	0.5	0 to V _P	+4.5 to +18	18	-5 to +12	12	8 Ld SOIC
ISL55100A	4	65	1	2.5	2.5	18	70	5	-V _P to +V _P	-18 to +18	18	-V _P to +V _P	18	72 Ld QFN
ISL55100B	4	50	1	3	3	18	70	9	-V _P to +V _P	-18 to +18	18	-V _P to +V _P	18	72 Ld QFN
ISL55110	2	100	3.5	1.5	1.5	20 QFN Only	3.5	3	0 to V _P	+2.7 to +5.5	5.5	0 to +13.2	13.2	8 Ld TSSOP, 16 Ld QFN
ISL55111	2	100	3.5	1.5	1.5	20 QFN Only	3.5	3	0 to V _P	+2.7 to +5.5	5.5	0 to +13.2	13.2	8 Ld TSSOP, 16 Ld QFN

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