

TABLE OF CONTENTS



Chapter 1	Introduction	
	Product Overview	1-3
	Commercial PLDs for Industrial Applications	1-10
Chapter 2	PAL Device Data Sheets	
16R8	PAL16R8 Family	2-3
	PAL16R8-4/5 Com'l Series	2-16
	PAL16L8-4/5	
	PAL16R8-4/5	
	PAL16R6-4/5	
	PAL16R4-4/5	
	PAL16R8-7 Com'l Series	2-18
	PAL16L8-7	
	PAL16R8-7	
	PAL16R6-7	
	PAL16R4-7	
	PAL16R8D Com'l Series	2-20
	PAL16L8D	
	PAL16R8D	
	PAL16R6D	
	PAL16R4D	
	PAL16R8B Com'l Series	2-22
	PAL16L8B	
	PAL16R8B	
	PAL16R6B	
	PAL16R4B	
	PAL16R8B-2 Com'l Series	2-24
	PAL16L8B-2	
	PAL16R8B-2	
	PAL16R6B-2	
	PAL16R4B-2	
	PAL16R8A Com'l Series	2-26
	PAL16L8A	
	PAL16R8A	
	PAL16R6A	
	PAL16R4A	
	PAL16R8B-4 Com'l Series	2-28
	PAL16L8B-4	
	PAL16R8B-4	
	PAL16R6B-4	
	PAL16R4B-4	
	PAL16R8-10/12 Mil Series	2-30
	PAL16L8-10/12	
	PAL16R8-10/12	
	PAL16R6-10/12	
	PAL16R4-10/12	



Universidad Nacional de Entre Ríos
Facultad de Ingeniería

	PAL16R8B Mil Series	2-32
	PAL16L8B	
	PAL16R8B	
	PAL16R6B	
	PAL16R4B	
	PAL16R8B-2 Mil Series	2-34
	PAL16L8B-2	
	PAL16R8B-2	
	PAL16R6B-2	
	PAL16R4B-2	
	PAL16R8A Mil Series	2-36
	PAL16L8A	
	PAL16R8A	
	PAL16R6A	
	PAL16R4A	
	PAL16R8B-4 Mil Series	2-38
	PAL16L8B-4	
	PAL16R8B-4	
	PAL16R6B-4	
	PAL16R4B-4	
16V8	PALCE16V8 Family	2-48
	PALCE16V8H-7 Com'l	2-58
	PALCE16V8H-10 Com'l	2-60
	PALCE16V8H-15/25 Q-15/25 Com'l	2-62
	PALCE16V8H-10 Mil	2-64
	PALCE16V8H-15 Mil	2-66
	PALCE16V8H-20/25 Mil	2-68
	PALCE16V8Z-25 IND	2-75
	PALCE16V8HD-15 Com'l	2-91
18P8	AmPAL18P8B/AL/A/L Com'l	2-111
20R8	PAL20R8 Family	2-121
	PAL20R8-5 Com'l Series	2-134
	PAL20L8-5	
	PAL20R8-5	
	PAL20R6-5	
	PAL20R4-5	
	PAL20R8-7 Com'l Series	2-136
	PAL20L8-7	
	PAL20R8-7	
	PAL20R6-7	
	PAL20R4-7	
	PAL20R8-10 Com'l Series	2-138
	PAL20L8-10	
	PAL20R8-10	
	PAL20R6-10	
	PAL20R4-10	
	PAL20R8B Com'l Series	2-140
	PAL20L8B	
	PAL20R8B	
	PAL20R6B	
	PAL20R4B	

	PAL20R8B-2 Com'l Series	2-142
	PAL20L8B-2	
	PAL20R8B-2	
	PAL20R6B-2	
	PAL20R4B-2	
	PAL20R8A Com'l Series	2-144
	PAL20L8A	
	PAL20R8A	
	PAL20R6A	
	PAL20R4A	
	PAL20R8-10/12 Mil Series	2-146
	PAL20L8-10/12	
	PAL20R8-10/12	
	PAL20R6-10/12	
	PAL20R4-10/12	
	PAL20R8-15 Mil Series	2-148
	PAL20L8-15	
	PAL20R8-15	
	PAL20R6-15	
	PAL20R4-15	
	PAL20R8B-2 Mil Series	2-150
	PAL20L8B-2	
	PAL20R8B-2	
	PAL20R6B-2	
	PAL20R4B-2	
	PAL20R8A Mil Series	2-152
	PAL20L8A	
	PAL20R8A	
	PAL20R6A	
	PAL20R4A	
20RA10	PALCE20RA10H-15 Com'l	2-160
20V8	PALCE20V8 Family	2-172
	PALCE20V8H-10 Com'l	2-182
	PALCE20V8H-15/25 Q-15/25 Com'l	2-184
	PALCE20V8H-15 Mil	2-186
	PALCE20V8H-20/25 Mil	2-188
22P10	AmPAL22P10B/AL/A Com'l	2-195
22V10	PAL22V10 Family	2-204
	PAL22V10-7 Com'l	2-212
	PAL22V10-10 Com'l	2-214
	PAL22V10-15 Com'l	2-216
	AmPAL22V10A Com'l	2-218
	PAL22V10-12 Mil	2-220
	PAL22V10-20 Mil	2-222
	AmPAL22V10/A Mil	2-224
	PALCE22V10 Family	2-232
	PALCE22V10H-10 Com'l	2-240
	PALCE22V10H-15/25 Q-25 Com'l	2-242
	PALCE22V10H-10 Mil	2-244
	PALCE22V10H-15/20/25/30 Mil	2-246
	PALCE22V10Z-25 IND	2-253
24V10	PALCE24V10H-15/25 Com'l	2-267

	26V12	PALCE26V12H–15/20 Com'l	2–282
	29M16	PALCE29M16H–25 Com'l	2–297
	29MA16	PALCE29MA16H–25 Com'l	2–319
	610	PALCE610 Family	2–344
		PALCE610H–15/25 Com'l	2–352
		PALCE610H–20 Mil	2–354
Chapter 3	General Information		
		Military PAL Devices	3–3
		Military ProPAL Devices	3–12
		Electrical Characteristic Definitions	3–14
		f _{MAX} Parameters	3–17
		Physical Dimensions	3–18
Chapter 4	Design and Testability		
		Testability	4–3
		Terminating High-Speed PAL Devices	4–22
		Ground Bounce	4–31
		Metastability	4–34
		Latchup	4–36
Chapter 5	Appendices		
		Glossary	5–3
		Worldwide Application Support	5–10