

TABLE OF CONTENTS



MACH Device Family Description	1
Synchronous MACH Devices	5
MACH 1 Family	
MACH110-12/15/20, MASC110-15/20	11
MACH120-15/20	25
MACH130-15/20	37
MACH 2 Family	
MACH210-12/15/20, MASC210-15/20	51
MACH220-15/20	67
MACH230-15/20	79
Asynchronous MACH Devices	95
MACH215-12/15/20	101
General Information	
Switching Waveforms	110
f _{MAX} Parameters	113
Approximating Actual Application Supply Current	114
Endurance Characteristics	117
Input/Output Equivalent Schematics	117
Power-Up Reset	118
Using Preload and Observability	119
Development Systems	120
Approved Programmers	122
Programmer Socket Adapters	123
Physical Dimensions	125
MACH Device Design Planning Guide	131