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Embedded - System On Chip (SoC): The Heart of Modern Embedded Systems

Embedded - System On Chip (SoC) refers to an integrated circuit that consolidates all the essential components of a computer system into a single chip. This includes a microprocessor, memory, and other peripherals, all packed into one compact and efficient package. SoCs are designed to provide a complete computing solution, optimizing both space and power consumption, making them ideal for a wide range of embedded applications.

What are Embedded - System On Chip (SoC)?

System On Chip (SoC) integrates multiple functions of a computer or electronic system onto a single chip. Unlike traditional multi-chip solutions, SoCs combine a central

Details

Product Status	Active
Architecture	MCU, FPGA
Core Processor	ARM® Cortex®-M3
Flash Size	256KB
RAM Size	64KB
Peripherals	DDR, PCIe, SERDES
Connectivity	CANbus, Ethernet, I ² C, SPI, UART/USART, USB
Speed	166MHz
Primary Attributes	FPGA - 10K Logic Modules
Operating Temperature	0°C ~ 85°C (TJ)
Package / Case	484-BGA
Supplier Device Package	484-FPBGA (23x23)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/m2s010-fgg484

Table 214	LVPECL Recommended DC Operating Conditions	64
Table 215	LVPECL Receiver Characteristics for MSIO I/O Bank	65
Table 216	LVPECL DC Input Voltage Specification	65
Table 217	LVPECL DC Differential Voltage Specification	65
Table 218	LVPECL Minimum and Maximum AC Switching Speeds	65
Table 219	Input Data Register Propagation Delays	67
Table 220	Output/Enable Data Register Propagation Delays	69
Table 221	Input DDR Propagation Delays	71
Table 222	Output DDR Propagation Delays	74
Table 223	Combinatorial Cell Propagation Delays	76
Table 224	Register Delays	77
Table 225	150 Device Global Resource	78
Table 226	090 Device Global Resource	78
Table 227	050 Device Global Resource	78
Table 228	025 Device Global Resource	78
Table 229	010 Device Global Resource	79
Table 230	005 Device Global Resource	79
Table 231	RAM1K18 – Dual-Port Mode for Depth x Width Configuration 1K x 18	79
Table 232	RAM1K18 – Dual-Port Mode for Depth x Width Configuration 2K x 9	80
Table 233	RAM1K18 – Dual-Port Mode for Depth x Width Configuration 4K x 4	81
Table 234	RAM1K18 – Dual-Port Mode for Depth x Width Configuration 8K x 2	83
Table 235	RAM1K18 – Dual-Port Mode for Depth x Width Configuration 16K x 1	84
Table 236	RAM1K18 – Two-Port Mode for Depth x Width Configuration 512 x 36	85
Table 237	μSRAM (RAM64x18) in 64 x 18 Mode	86
Table 238	μSRAM (RAM64x16) in 64 x 16 Mode	87
Table 239	μSRAM (RAM128x9) in 128 x 9 Mode	88
Table 240	μSRAM (RAM128x8) in 128 x 8 Mode	89
Table 241	μSRAM (RAM256x4) in 256 x 4 Mode	91
Table 242	μSRAM (RAM512x2) in 512 x 2 Mode	92
Table 243	μSRAM (RAM1024x1) in 1024 x 1 Mode	93
Table 244	JTAG Programming (Fabric Only)	94
Table 245	JTAG Programming (eNVM Only)	95
Table 246	JTAG Programming (Fabric and eNVM)	95
Table 247	2 Step IAP Programming (Fabric Only)	95
Table 248	2 Step IAP Programming (eNVM Only)	96
Table 249	2 Step IAP Programming (Fabric and eNVM)	96
Table 250	SmartFusion2 Cortex-M3 ISP Programming (Fabric Only)	96
Table 251	SmartFusion2 Cortex-M3 ISP Programming (eNVM Only)	96
Table 252	SmartFusion2 Cortex-M3 ISP Programming (Fabric and eNVM)	97
Table 253	Programming Times with 100 kHz, 25 MHz, and 12.5 MHz SPI Clock Rates (Fabric Only)	97
Table 254	Programming Times with 100 kHz, 25 MHz, and 12.5 MHz SPI Clock Rates (eNVM Only)	97
Table 255	Programming Times with 100 kHz, 25 MHz, and 12.5 MHz SPI Clock Rates (Fabric and eNVM)	98
Table 256	JTAG Programming (Fabric Only)	99
Table 257	JTAG Programming (eNVM Only)	99
Table 258	JTAG Programming (Fabric and eNVM)	99
Table 259	2 Step IAP Programming (Fabric Only)	100
Table 260	2 Step IAP Programming (eNVM Only)	100
Table 261	2 Step IAP Programming (Fabric and eNVM)	100
Table 262	SmartFusion2 Cortex-M3 ISP Programming (Fabric Only)	101
Table 263	SmartFusion2 Cortex-M3 ISP Programming (eNVM Only)	101
Table 264	SmartFusion2 Cortex-M3 ISP Programming (Fabric and eNVM)	101
Table 265	Programming Times with 100 kHz, 25 MHz, and 12.5 MHz SPI Clock Rates (Fabric Only)	102
Table 266	Programming Times with 100 kHz, 25 MHz, and 12.5 MHz SPI Clock Rates (eNVM Only)	102
Table 267	Programming Times with 100 kHz, 25 MHz, and 12.5 MHz SPI Clock Rates (Fabric and eNVM)	102
Table 268	Math Blocks with all Registers Used	103
Table 269	Math Block with Input Bypassed and Output Registers Used	103
Table 270	Math Block with Input Register Used and Output in Bypass Mode	104
Table 271	Math Block with Input and Output in Bypass Mode	104
Table 272	eNVM Read Performance	104

Table 273	eNVM Page Programming	104
Table 274	SRAM PUF	105
Table 275	Non-Deterministic Random Bit Generator (NRBG)	106
Table 276	Cryptographic Block Characteristics	106
Table 277	Electrical Characteristics of the Crystal Oscillator – High Gain Mode (20 MHz)	107
Table 278	Electrical Characteristics of the Crystal Oscillator – Medium Gain Mode (2 MHz)	108
Table 279	Electrical Characteristics of the Crystal Oscillator – Low Gain Mode (32 kHz)	108
Table 280	Electrical Characteristics of the 50 MHz RC Oscillator	109
Table 281	Electrical Characteristics of the 1 MHz RC Oscillator	109
Table 282	IGLOO2 and SmartFusion2 SoC FPGAs CCC/PLL Specification	110
Table 283	IGLOO2 and SmartFusion2 SoC FPGAs CCC/PLL Jitter Specifications	111
Table 284	JTAG 1532 for 005, 010, 025, and 050 Devices	112
Table 285	JTAG 1532 for 060, 090, and 150 Devices	112
Table 286	System Controller SPI Characteristics for All Devices	113
Table 287	Supported I/O Configurations for System Controller SPI (for MSIO Bank Only)	113
Table 288	Power-up to Functional Times for SmartFusion2	114
Table 289	Power-up to Functional Times for IGLOO2	115
Table 290	DEVRST_N Characteristics for All Devices	116
Table 291	DEVRST_N to Functional Times for SmartFusion2	116
Table 292	DEVRST_N to Functional Times for IGLOO2	118
Table 293	Flash*Freeze Entry and Exit Times	119
Table 294	DDR Memory Interface Characteristics	120
Table 295	SFP Transceiver Electrical Characteristics	120
Table 296	Transmitter Parameters	121
Table 297	Receiver Parameters	122
Table 298	SerDes Protocol Compliance	122
Table 299	SerDes Reference Clock AC Specifications	123
Table 300	HCSL Minimum and Maximum DC Input Levels (Applicable to SerDes REFCLK Only)	123
Table 301	HCSL Minimum and Maximum AC Switching Speeds (Applicable to SerDes REFCLK Only)	123
Table 302	Maximum Frequency for MSS Main Clock	123
Table 303	I2C Characteristics	124
Table 304	I2C Switching Characteristics	125
Table 305	SPI Characteristics for All Devices	126
Table 306	CAN Controller Characteristics	128
Table 307	USB Characteristics	128
Table 308	MMUART Characteristics	129
Table 309	Maximum Frequency for HPMS Main Clock	129
Table 310	SPI Characteristics for All Devices	129

