

ESM7000 / ESM7100 Specifications

Items	Specification	Note
SOC chip	iMX7D (Cortex-A7 Dual-Core)	
CPU clock	1GHz	
Memory	1GB DDR3	
Flash	4GB eMMC + SD interface	SD Pins multiplexed with GPIO
RTC	✓	
Watch Dog	✓	
Display	18-bit RGB or LVDS	Backlight Controllable
Touch Screen	4-Wire Resistive or Capacitive	
Ethernet	2 Ports: 1000M + 100M	RJ45 format
CAN Bus	2 Ports	Pin multiplexed with GPIO
UART	6 Ports	Max Baud Rate: 3Mbps
I2C	1	Pin multiplexed with GPIO
SPI	1	4-wire full-duplex
GPIO	32	
USB 2.0 Host	4 (ESM7000) / 3 (ESM7100)	
USB 2.0 OTG	1 (ESM7000 only)	
PCIe × 1	1 (ESM7100 only)	NVMe enabled
ISA bus	4MB/s (async.), 11MB/s (sync)	8-bit bus from iMX7D EIM
Power	5V / 300mA (Max.)	
Op. Temperature	-20°C - +70°C	
Connectors	2 IDC (22 × 3 pins, 2mm pitch)	
Board Size	74mm × 54mm	
Linux	Linux-4.9.x / yocto 2.0	