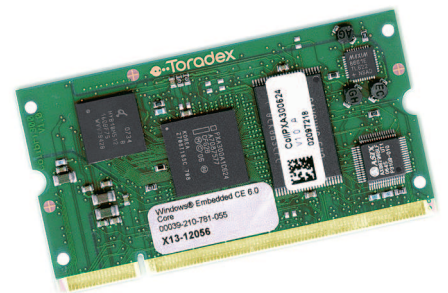


Colibri Computer Modules

Toradex Colibri modules are highly miniaturized and encapsulate complex hardware and software technology for fast and easy product development. They come with a sophisticated development environment, including a fully customizable Windows CE 5.0/6.0/7.0 BSP. All Colibri products are pin compatible, allowing optimization for cost or performance on an existing design.



	Colibri PXA300 (208 MHz)	Colibri PXA270M (312/520 MHz)	Colibri PXA310 (624 MHz)	Colibri PXA320 (806 MHz)	Colibri PXA320 IT (806 MHz)	Colibri Tegra T20 (2x 1.0 GHz)
CPU	Marvell PXA300 Wireless MMX 2	Marvell PXA270M Wireless MMX	Marvell PXA310 Wireless MMX 2	Marvell PXA320 Wireless MMX 2	Marvell PXA320 IT Wireless MMX 2	Nvidia Tegra T20 CORTEX A9 MPCORE

Samples available
in Q4 2010

Memory

RAM (Bus Width)	64 MB DDR (16 Bit)	64 MB SDRAM (32 Bit)	128 MB DDR (16 Bit)	128 MB DDR (32 Bit)	128 MB DDR (32 Bit)	256 MB DDR (32 Bit)
Flash (Bus Width)	128 MB (8 Bit)	32 MB (32 Bit)	512 MB (8 Bit)	1 GB (8 Bit)	1 GB (8 Bit)	1 GB (8 Bit)

Connectivity

External Bus	16 Bit	32 Bit		16 Bit		16 Bit (32 Bit)
I2C	✓	✓	✓	✓	✓	✓
SPI	✓	✓	✓	✓	✓	✓
One-Wire	✓	–	✓	✓	✓	✓
CompactFlash	–	✓	–	✓	✓	–
UART	3x	3x	3x	3x	3x	3x
IrDA	✓	✓	✓	✓	✓	✓
Consumer IR Unit	✓	–	✓	✓	✓	–
100MBit Ethernet	✓	✓	✓	✓	✓	✓
SDCard	2x	1x	2x	2x	2x	2x (8 Bit)
USB Host/Device	✓	✓	✓	✓	✓	✓ (High Speed)

Multimedia

HDMI	–	–	–	–	–	Full HD (1080p)
LCD			XGA (1024 x 768)			WSXGA+ (1680 x 1050)
Touch Interface	–	4/5-wire	4/5-wire	4/5-wire	4/5-wire	4/5-wire
Camera Interface	✓	✓	✓	✓	✓	✓
Audio I/O	–	✓	✓	✓	✓	✓
PWM	✓	✓	✓	✓	✓	✓
GPIOs	up to 92	up to 85	up to 92		up to 93	up to 110

Size	67.6 × 36.7 × 5.2 mm (SODIMM)					
Temperature	0° to 70° C	-10° to 70° C	-20° to 85° C	0° to 70° C	-40° to 85° C	-20° to 70° C
Typical Power Consumption	0.35 - 0.85 W	0.45 - 1.4 W	0.7 - 1.5 W	0.7 - 1.7 W	0.7 - 1.7 W	< 2W