

## USB Stacks (USB Device, USB Host, and USB OTG)

Fast, reliable, easy-to-use, and able to draw power without a separate AC connection, the Universal Serial Bus (USB) is the world's most popular serial connection technology. Today, it appears in embedded applications of all kinds. NXP leads the market in USB-equipped ARM MCUs, with more than 50 options for ARM7, ARM9, and Cortex-M3 technologies. The USB stacks listed below enable rapid integration of USB into your embedded system and significantly reduce your time to market. Please note that the table only includes devices with an on-chip USB Device, Host, and/or OTG peripheral.

Supplier	USB Stacks	Supported Devices																			Comments			
		LPC175x	LPC176x	LPC214x	LPC215x	LPC236x	LPC237x	LPC238x	LPC242x	LPC245x	LPC246x	LPC247x	LPC288x	LPC292x	LPC293x	LH795xx	LH7A4xx	LPC313x	LPC314x	LPC315x		LPC318x	LPC32xx	
CMX	CMX-USB Device	●	●	●	●	●	●	●	●	●	●	●										●	USB Device stack	
	CMX-USB Host	●	●					●	●	●	●	●											●	USB Host stack
	CMX-USB OTG	●	●						●	●	●	●												USB On-the-Go stack
Express Logic	USBX Device	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	USB Device Stack
	USBX Host	●	●			●	●	●	●	●	●	●		●	●		●	●	●	●	●	●	●	USB Host / OTG stack
HCC Embedded	EUSBD	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	Device stack w/ many class drivers
	EUSBH	●	●			●	●	●	●	●	●	●			●			●	●	●	●	●	●	Host stack w/ many class drivers
	EUSB-OTG	●	●			●	●	●	●	●	●	●		●	●			●	●	●	●	●	●	USB OTG stack
IAR	PowerPac USB			●	●	●	●			●	●										●		USB Device Stack	
Jungo	USBware Device Stack					●	●	●	●	●	●													USB 1.1/2.0 Device Stack
	USBware Host Stack								●	●	●	●												USB 1.1/2.0 Host Stack
	USBware OTG Stack								●	●	●	●												USB On-The-Go Stack
Keil / ARM	RL-USB			●	●	●	●	●	●	●	●												USB Device stack; part of RL-ARM	
Mentor Graphics	Nucleus-USB																					●	Device/Host/OTG	
Micrium	μC/USB Device			●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	USB Device stack
	μC/USB Host										●	●				●					●	●	●	USB Host stack
	μC/OTG										●	●										●	●	USB On-the-Go stack
Micro Digital	smxUSBD			●	●	●	●	●	●	●	●					●					●	●	●	USB Device stack
	smxUSBH							●	●	●	●					●						●	●	USB Host stack
	smxUSBO							●	●	●	●											●	●	USB On-the-Go stack
NXP	USBHostLite for LPC								●	●	●	●											Free USB Host Stack w/ MSC driver	
OnChip	OT-USB (Device)			●	●	●	●	●	●	●	●	●	●										●	Supports MSC,CDC,HID and Audio
	OT-USB (Host)					●	●	●	●	●	●	●											●	Supports MSC,CDC,HID and Audio
Quadros	RTXCusb Device	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	Embedded USB Device stack
	RTXCusb Host	●	●			●	●	●	●	●	●	●						●	●	●	●	●	●	Embedded USB Host stack
	RTXCusb OTG	●	●			●	●	●	●	●	●	●		●	●			●	●	●	●	●	●	Embedded OTG stack
SEGGER	emUSB	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	USB Device Stack	
SourceForge	lpcusb (free)			●	●																		Free open-source USB Device Stack	
Thesycon	USB Device Stack	●	●			●	●	●	●	●	●											●		CDC, HID, Raw Bulk
	USB Host Stack	●	●					●	●	●	●											●		Mass Storage, CDC, HID
	Generic USBIO Driver	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●	Windows 2000/XP/Vista and CE	
	USB CDC/ACM Driver	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●	Windows 2000/XP/Vista and CE	
Family		LPC1000			LPC2000										LH/LH7			LPC3000						
Core		Cortex-M3			ARM7TDMI							ARM968		<sup>1)</sup>	<sup>2)</sup>	ARM926EJ			<sup>1)</sup> ARM720T <sup>2)</sup> ARM926EJ					