

FTDI USB Interface Products

RoHS Compliant This product is RoHS compliant.

FTDI Embedded Modules

FTDI USB-UART AND USB INTERFACE IC'S

FTDI X-CHIP SERIES IC'S - Full Speed USB IC Devices (FT200X, FT201X, FT220X, FT221X, FT230X, FT231X, FT240X):

Made up of 13 different package options, the X-Chip series complements FTDI's existing FT-R and FT-H offerings. The series supports a broad selection of interface types such as basic UART, full UART, FIFO and I²C, as well as FTDI's proprietary FT1248 I/O (including provisions for enhanced SPI). Devices in this series are capable of data rates of up to 3.4 Mbits/s, while maintaining low power consumption, <8mA (typical) when fully active and <125uA (typical) while in suspend mode. In addition, this series can detect a charging port and cause logic to switch from data transfer to charging mode. As with all FTDI IC's these devices are offered with a range of Royalty free FTDI developed drivers for 32 and 64-bit OS including Windows (2000, XP, VISTA, 7), Linux, Mac OS, Android and WinCE.

FTDI FT232 - Full Speed USB to Serial UART IC Devices:

The FT232 USB to UART device includes an internal 3V3 regulator and USB Transceiver that provides USB 1.1/2.0 full speed physical interface. The UART will operate from 300Baud to 3MBaud. The FT232RL/RQ also include an internal EEPROM and clock circuitry plus the FTDI Chip-ID security mode. The devices are offered with a range of Royalty free FTDI developed drivers for 32 and 64 bit OS including Windows (2000, XP, VISTA, 7), Linux, Mac OS, Android and WinCE.

FTDI FT2232D - Full Speed Dual UART/FIFO IC Devices:

The FT2232D device features two multi-purpose UART/FIFO controllers which can be configured individually in several different modes. As well as a UART interface, a FIFO interface and the Bit-Bang IO mode of the FT232 and FT245 devices, the FT2232D offers a variety of additional new modes of operation including a Multi-Protocol Synchronous Serial Engine (MP SSE) interface which is designed specifically for synchronous serial protocols such as I²C, JTAG and SPI bus. The FT2232D has an extended temperature range (-40°C to +85°C) and adds CPU FIFO mode.

FTDI Hi-Speed Single/Dual/Quad USB IC Devices (FT232H, FT2232H, FT4232H):

FTDI's Hi-Speed IC's are USB 2.0 Hi-Speed devices operating at 480Mbps. In addition to the standard UART mode, each of these devices supports FTDI's bit-bang modes and contains our multi-protocol synchronous serial engine(s) (MP SSEs) to allow communication using JTAG, I²C and SPI protocols. The FT2232H and FT232H also include standard FIFO and the FT232H supports FTDI's FT1248 mode.

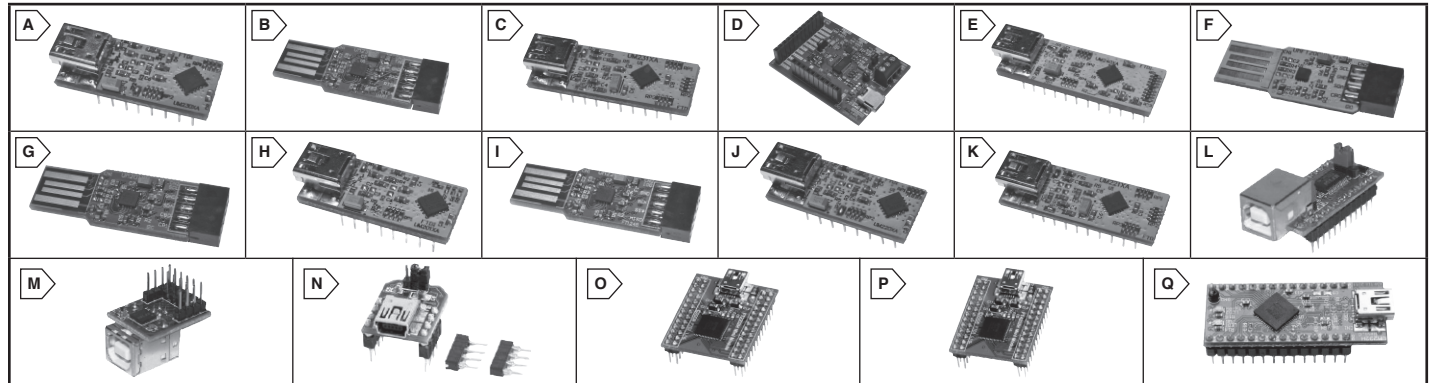


PRODUCT NEW

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FTDI Part No.	Description	Price Each			
			1	10	50	100
895-FT230XS-R	FT230XS	USB to Basic Serial UART IC, 16 Pin SSOP	2.04	2.04	1.97	1.90
895-FT230XQ-R	FT230XQ	USB to Basic Serial UART IC, 16 Pin QFN	2.04	2.04	1.97	1.90
895-FT231XS-R	FT231XS	USB to Full Serial UART IC, 20 Pin SSOP	2.12	2.12	2.05	1.98
895-FT231XQ-R	FT231XQ	USB to Full Serial UART IC, 20 Pin QFN	2.12	2.12	2.05	1.98
895-FT240XS-R	FT240XS	USB to Parallel FIFO IC, 24 Pin SSOP	2.16	2.16	2.09	2.02
895-FT240XQ-R	FT240XQ	USB to Parallel FIFO IC, 24 Pin QFN	2.16	2.16	2.09	2.02
895-FT200XD-R	FT200XD	USB to I ² C IC, 10 Pin DFN	2.00	2.00	1.93	1.87
895-FT201XS-R	FT201XS	USB to I ² C IC, 16 Pin SSOP	2.04	2.04	1.97	1.90
895-FT201XQ-R	FT201XQ	USB to I ² C IC, 16 Pin QFN	2.04	2.04	1.97	1.90
895-FT220XS-R	FT220XS	USB to 4-bit SPI/FT1248 IC, 16 Pin SSOP	2.04	2.04	1.97	1.90
895-FT220XQ-R	FT220XQ	USB to 4-bit SPI/FT1248 IC, 16 Pin QFN	2.04	2.04	1.97	1.90
895-FT221XS-R	FT221XS	USB to 8-bit SPI/FT1248 IC, 20 Pin SSOP	2.12	2.12	2.05	1.98
895-FT221XQ-R	FT221XQ	USB to 8-bit SPI/FT1248 IC, 20 Pin QFN	2.12	2.12	2.05	1.98
895-FT232RL	FT232RL	USB to Serial UART IC, 28 Pin SSOP	4.50	4.05	3.85	3.65
895-FT232RQ	FT232RQ	USB to Serial UART IC, 32 Pin QFN	4.50	4.05	3.85	3.65
895-FT232BL	FT232BL	USB to Serial UART IC, 32 Pin LQFP	5.75	4.95	4.60	4.25
895-FT232BQ	FT232BQ	USB to Serial UART IC, 32 Pin QFN	5.75	4.95	4.60	4.25
895-FT245RL	FT245RL	USB to Parallel FIFO IC, 28 Pin SSOP	4.50	4.05	3.85	3.65
895-FT245RQ	FT245RQ	USB to Parallel FIFO IC, 32 Pin QFN	4.50	4.05	3.85	3.65
895-FT245BL	FT245BL	USB to Parallel FIFO IC, 32 Pin LQFP	5.75	4.95	4.60	4.25
895-FT2232D	FT2232D	USB to Dual UART/FIFO IC, 48 Pin LQFP	6.99	6.28	5.59	5.17
895-FT2232HL	FT2232HL	USB Hi-Speed to Dual UART/FIFO/SPI/JTAG/I ² C IC, 64 Pin LQFP	6.71	6.20	5.77	5.40
895-FT2232HQ	FT2232HQ	USB Hi-Speed to Dual UART/FIFO/SPI/JTAG/I ² C IC, 64 Pin QFN	6.71	6.20	5.77	5.40
895-FT4232HL	FT4232HL	USB Hi-Speed to Quad UART/SPI/JTAG/I ² C IC, 64 Pin LQFP	9.59	8.66	8.10	6.84
895-FT4232HQ	FT4232HQ	USB Hi-Speed to Quad UART/SPI/JTAG/I ² C IC, 64 Pin QFN	9.59	8.66	8.10	6.84
895-FT232HL-REEL	FT232HL	USB Hi-Speed to UART/FIFO/SPI/JTAG/I ² C/FT1248 IC, 48 Pin LQFP	4.25	3.55	3.20	3.10
895-FT232HQ-REEL	FT232HQ	USB Hi-Speed to UART/FIFO/SPI/JTAG/I ² C/FT1248 IC, 48 Pin QFN	4.25	3.55	3.20	3.10

FTDI USB INTERFACE BASED MODULES



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MOUSER STOCK NO.	FTDI Part No.	Fig.	Description	Price Each			
				1	10	50	100
895-UMFT230XA-01	UMFT230XA-01	A	USB to Basic UART Development Module for FT230X	18.00	16.65	16.24	15.83
895-UMFT230XB-01	UMFT230XB-01	B	USB to Basic UART Breakout Module for FT230X	9.95	9.20	8.98	8.75
895-UMFT231XA-01	UMFT231XA-01	C	USB to Full UART Development Module for FT231X	20.00	18.50	18.04	17.59
895-UMFT231XC-01	UMFT231XC-01	D	USB to Full UART + Battery Charger Detection Development Module, FT231X	35.00	32.38	31.57	30.78
895-UMFT240XA-01	UMFT240XA-01	E	USB to Parallel FIFO Development Module for FT240X	23.75	21.97	21.42	20.89
895-UMFT200XD-01	UMFT200XD-01	F	USB to I ² C Breakout Module for FT200XD	9.50	8.79	8.57	8.36
895-UMFT201XB-01	UMFT201XB-01	G	USB to I ² C Breakout Module for FT201X	9.95	9.20	8.98	8.75
895-UMFT201XA-01	UMFT201XA-01	H	USB to I ² C Development Module for FT201X	18.00	16.65	16.24	15.83
895-UMFT220XB-01	UMFT220XB-01	I	USB to 4-bit SPI/FT1248 Breakout Module for FT220X	9.95	9.20	8.98	8.75
895-UMFT220XA-01	UMFT220XA-01	J	USB to 4-bit SPI/FT1248 Development Module for FT220X	18.00	16.65	16.24	15.83
895-UMFT221XA-01	UMFT221XA-01	K	USB to 8-bit SPI/FT1248 Development Module for FT220X	20.00	18.50	18.04	17.59
895-EVAL232R	EVAL232R	-	USB to RS232 Evaluation Module for FT232RL	21.00	19.00	17.50	16.00
895-UM232R	UM232R	L	USB to Serial UART Development Module for FT232R	20.00	18.00	16.50	15.00
895-MM232R	MM232R	M	USB to Serial UART Mini Module for FT232R	18.00	16.00	14.50	13.00
895-UB232R	UB232R	N	Mini USB to Serial UART Module with USB Mini Connector for FT232R	17.50	15.50	14.00	12.50
895-UM245R	UM245R	L	USB to Parallel FIFO Development Module for FT245R	20.00	18.00	16.50	15.00
895-FT2232HMINIMOD	FT2232H MINI MOD	O	USB Hi-Speed to 2-Port UART/FIFO/JTAG/SPI/I ² C Eval Module, FT2232H	27.00	24.30	22.37	20.39
895-FT4232HMINIMOD	FT4232H MINI MOD	P	USB Hi-Speed to 4-Port UART/JTAG/SPI/I ² C Eval Module, FT4232H	29.90	26.91	24.77	22.58
895-UM232H	UM232H	Q	USB Hi-Speed to UART/FIFO/JTAG/SPI/I ² C/FT1248 Eval Module, FT232H	20.00	17.85	17.00	16.00