Parallel Cable IV, Splitter, PC4 / Platform Cable USB, Flying Lead Connector

The **Ribbon Cable** incorporates multiple signal-ground pairs and facilitates error-free connection.

The **Platform Cable USB** is a high-performance download cable that configures or programs ISP PROM, CPLD and FPGA devices. A sustained Slave-serial FPGA configuration rate of 24Mb/s is possible in a high-speed USB environment. **Features:**
• Automatically senses and adapts to target I/O Voltage • Configures all Xilinx devices
• LED status indicator

The **FPGA Flying Lead Connector** provides pins on your printed circuit board for your desired configuration mode.

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
Ribbon Cable for Multipro or Cable IV	122-1476-ND	7.06	HW-RIBBON14
FPGA Flying Lead Connector	122-1473-ND	13.26	HW-FLYLEADS
Board Adapter with Wire Leads	122-1530-ND◆	22.10	HW-USB-FLYLEADS-G
Platform Cable USB II	122-1572-ND◆	198.92	HW-USB-II-G

◆ ***RoHS Compliant***

In-System Programmable CPLDs (Complex Programmable Logic Devices)

The **XC9500 CPLD** family provides advanced in-system programming and test capabilities. All devices have a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members. The XC9500 family is fully pin-compatible allowing easy design migration. Advanced system features include output slew rate control and user programmable ground pins to help reduce system noise. I/Os may be configured for 3.3V or 5V operation. All outputs provide 24mA drive.

The **FastFLASH XC9500XL** family is a 3.3V CPLD family targeted for high-performance, low-voltage applications. The XC9500XL architectural features address the requirements of in-system programmability. Each user pin is compatible with 5V, 3.3V, and 2.5V inputs, and the outputs may be configured for 3.3V or 2.5V operation. The XC9500XL device exhibits symmetric full 3.3V output voltage swing.

The **CoolRunner™-II** device is a 3.3V CPLD targeted at power sensitive designs that require leading edge programmable logic solutions. CoolRunner CPLDs offer a TotalCMOS™ solution, both in process technology and design technique. Xilinx employs a cascade of CMOS gates to implement its sum of products instead of the traditional sense amp approach.

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Package	Macro-cells	Usable Gates	Registers	System Frequency (MHz)	Pin to Pin Delay TPD (ns)	I/O Pins	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
5 Volt											
44-VQFP	36	800	36	100 (Min.)	5	34	122-1254-ND	9.41	8.73	8.09	XC9536-5VQ44C
44-PLCC	36	800	36	83 (Min.)	7.5	34	122-1169-ND	4.12	3.85	3.57	XC9536-7PC44C
44-VQFP	36	800	36	83 (Min.)	7.5	34	122-1170-ND	4.12	3.85	3.57	XC9536-7VQ44C
44-PLCC	36	800	36	66 (Min.)	10	34	122-1431-ND◆	3.24	3.01	2.81	XC9536-10PCG44C
44-VQFP	36	800	36	66 (Min.)	10	34	122-1432-ND◆	3.24	3.01	2.81	XC9536-10VQG44C
44-PLCC	36	800	36	55 (Min.)	15	34	122-1433-ND◆	3.20	2.97	2.77	XC9536-15PCG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1434-ND◆	3.20	2.97	2.77	XC9536-15VQG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1394-ND	3.68	3.41	3.17	XC9536-15VQ44I
84-PLCC	72	1600	72	83 (Min.)	7.5	69	122-1262-ND	13.61	11.54	9.97	XC9572-7PC84C
44-PLCC	72	1600	72	66 (Min.)	10	34	122-1439-ND◆	6.01	—	—	XC9572-10PCG44C
84-PLCC	72	1600	72	66 (Min.)	10	69	122-1440-ND◆	8.41	7.09	6.13	XC9572-10PCG84C
44-PLCC	72	1600	72	55 (Min.)	15	34	122-1443-ND◆	4.20	3.57	3.09	XC9572-15PCG44C
84-PLCC	72	1600	72	55 (Min.)	15	69	122-1444-ND◆	5.89	4.97	4.29	XC9572-15PCG84C
100-PQFP	72	1600	72	55 (Min.)	15	72	122-1445-ND◆	10.17	8.61	7.41	XC9572-15PQG100C
100-TQFP	72	1600	72	55 (Min.)	15	72	122-1446-ND◆	10.17	8.61	7.41	XC9572-15TQG100C
100-TQFP	108	2400	108	83 (Min.)	7.5	81	122-1424-ND◆	35.20	29.75	25.71	XC95108-7TQG100C
100-TQFP	108	2400	108	66 (Min.)	10	81	122-1421-ND◆	25.15	21.27	18.34	XC95108-10TQG100C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1460-ND◆	11.65	9.85	8.49	XC95108-15PCG84C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1246-ND	13.37	11.30	9.77	XC95108-15PC84I
100-TQFP	108	2400	108	55 (Min.)	15	81	122-1422-ND◆	14.89	12.58	10.86	XC95108-15TQG100C
100-PQFP	144	3200	144	55 (Min.)	15	81	122-1426-ND◆	16.46	13.90	12.02	XC95144-15PQG100C
100-TQFP	144	3200	144	55 (Min.)	15	81	122-1427-ND◆	16.46	13.90	12.02	XC95144-15TQG100C
3.3 Volt											
44-PLCC	36	800	36	178 (Max.)	5	34	122-1571-5-ND◆	1.15	—	—	XC9536XL-5PCG44C
44-VQFP	36	800	36	178 (Max.)	5	34	122-1465-ND◆	1.15	—	—	XC9536XL-5VQG44C
44-VQFP	36	800	36	125 (Max.)	7.5	34	122-1437-ND◆	.91	—	—	XC9536XL-7VQG44C
44-PLCC	36	800	36	100 (Max.)	10	34	122-1570-ND◆	.86	—	—	XC9536XL-10PCG44C
64-VQFP	36	800	36	100 (Max.)	10	36	122-1435-ND◆	.96	—	—	XC9536XL-10VQG64C
44-VQFP	72	1600	72	125 (Max.)	7.5	34	122-1449-ND◆	2.31	—	—	XC9572XL-7VQG44C
64-VQFP	72	1600	72	125 (Max.)	7.5	52	122-1450-ND◆	2.69	—	—	XC9572XL-7VQG64C
44-PLCC	72	1600	72	178 (Max.)	5	34	122-1466-ND◆	1.63	—	—	XC9572XL-10PCG44C
44-VQFP	72	1600	72	100 (Max.)	10	34	122-1448-ND◆	1.63	—	—	XC9572XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1468-ND◆	3.08	—	—	XCR3064XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1469-ND◆	3.84	—	—	XCR3064XL-10VQG44I
100-VQFP	64	1500	64	192 (Max.)	10	100	122-1470-ND◆	4.00	—	—	XCR3064XL-10VQG100C
100-VQFP	128	3000	128	95 (Max.)	5.5	84	122-1282-ND	7.69	—	—	XCR3128XL-10VQ100C
144-TQFP	256	6000	256	88 (Max.)	7.0	120	122-1283-ND	13.17	—	—	XCR3256XL-12TQ144C
CoolRunner-II — RoHS Compliant											
56-BGA	32	750	32	323 (Max.)	3.8	33	122-1403-ND	1.28	—	—	XC2C32A-3CPG56C
32-QFN	32	750	32	323 (Max.)	3.8	21	122-1412-ND	.92	.89	.81	XC2C32A-6QFG32C
44-VQFP	32	750	32	323 (Max.)	3.8	33	122-1404-ND	1.00	.97	.93	XC2C32A-6VQG44C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1419-ND	2.80	2.69	2.57	XC2C64A-5QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1420-ND	2.72	2.61	2.49	XC2C64A-5VQG44C
56-BGA	64	1500	64	263 (Max.)	4.6	45	122-1408-ND	2.24	2.13	2.05	XC2C64A-7CPG56C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1418-ND	2.00	1.93	1.85	XC2C64A-7QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1410-ND	1.96	1.89	1.77	XC2C64A-7VQG44C
100-VQFP	64	1500	64	263 (Max.)	4.6	64	122-1409-ND	2.44	2.33	2.21	XC2C64A-7VQG100C
132-BGA	128	3000	128	244 (Max.)	5.7	100	122-1396-ND	5.85	5.61	5.33	XC2C128-7CPG132C
144-TQFP	128	3000	128	244 (Max.)	5.7	100	122-1397-ND	5.57	5.33	5.05	XC2C128-7TQG144C
100-VQFP	128	3000	128	244 (Max.)	5.7	80	122-1285-ND	4.64	4.45	4.21	XC2C128-7VQG100C
132-BGA	256	6000	256	256 (Max.)	5.7	106	122-1399-ND	13.57	13.02	12.34	XC2C256-7CPG132C
256-FTBGA	256	6000	256	256 (Max.)	5.7	184	122-1400-ND	12.37	11.86	11.26	XC2C256-7FTG256C
208-PQFP	256	6000	256	256 (Max.)	5.7	173	122-1411-ND	11.29	10.82	10.26	XC2C256-7PQG208C

◆ ***RoHS Compliant***

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