

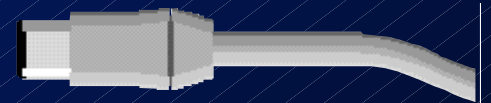


IEEE-1394 High Performance Serial Bus

“The MultiMedia Connection”

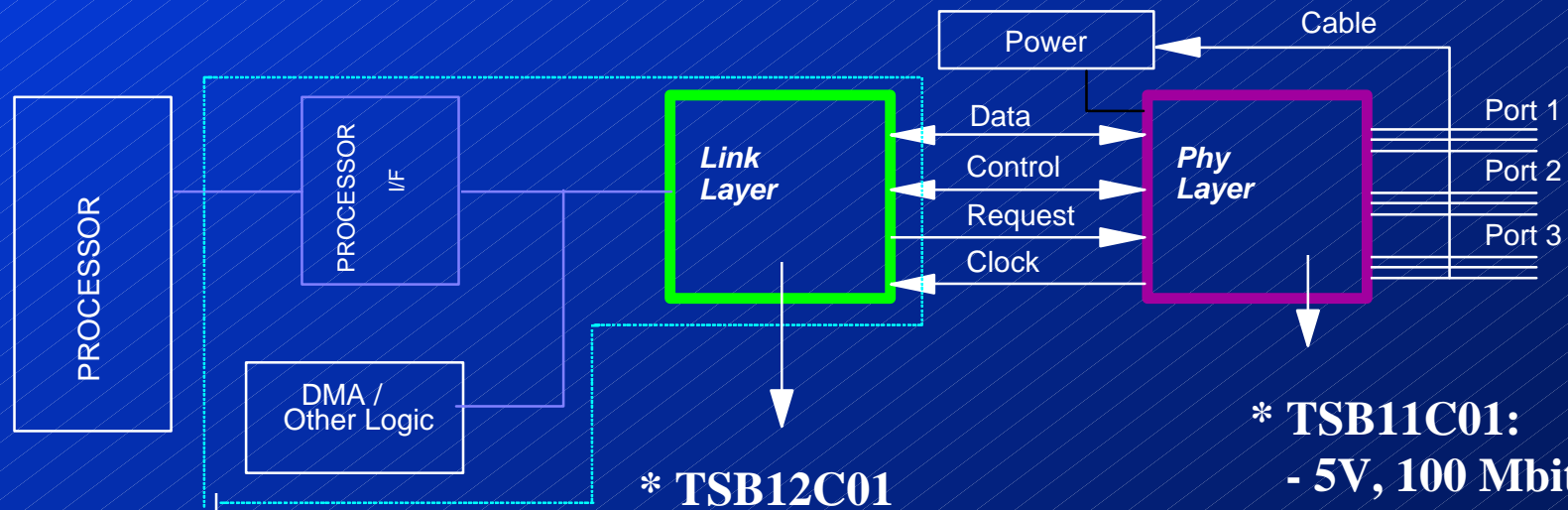
<http://www.ti.com/sc/1394>

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System Diagram



* ASIC solution can also be provided to Tier 1 customers

* **TSB12C01**
- Already designed for up to 400 Mbit/s operation
- FIFOs and configuration registers are included

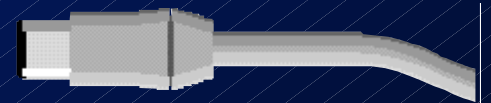
* **TSB11C01:**
- 5V, 100 Mbit/s
- 3 ports
- Digital logic included
* **TSB21LV03**
- 3V, 200 Mbit/s
- 3 ports
- Digital logic included

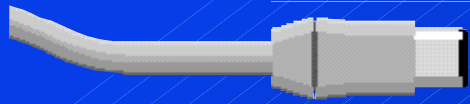




1394 Physical Layer Devices

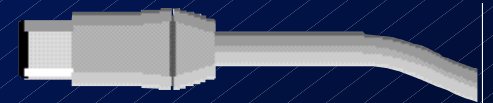
	PORTS	VOLTAGE (V)	DATA RATE (Mbps)	PACKAGE	FEATURE	STATUS
TSB11C01	3	5	100	56-pin SSOP		Released
TSB11LV01	1	3.3	100	48-pin SQFP	5V tolerant	Released
TSB21LV03	3	3.3	200	64-pin SQFP	5 V tolerant	RTP: 10/28
TSB14C01	1	5.0	50 or 100	64-pin SQFP	Backplane Phy	Released





1394 Link Layer Devices

	VOLTAGE (V)	DATA RATE (Mbps)	PACKAGE	FEATURE	STATUS
TSB12C01 A	5	up to 400	PZ 100-pin TQFP	2K Byte FIFO 32 bit I/F	Released
TSB12LV21	3.3	up to 400	PGF 176-pin TQFP	32 bit PCI I/F 5 DMA channels 8/16 bit ZV port	Released
TSB12LV31	3.3	up to 200	PZ 100-pin TQFP	200 Byte FIFO 8/16 programmable bit I/F 1 DMA Channel	RTP: 10/28





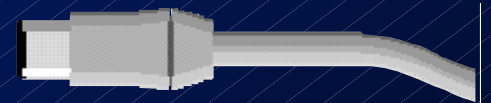
TI 1394 Evaluation Module Kits

Contents of Kit

- One EVM
- One 1394 Cable
- Software & Programmers Guide
- Databooks
- Setup Instructions & Schematics

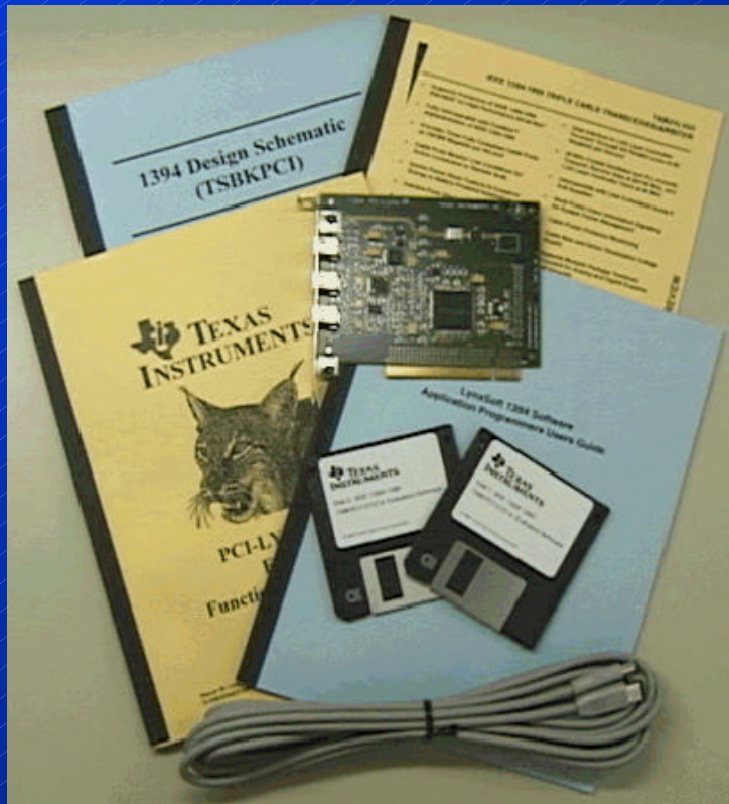
Evaluation Module Kits

- TSBKPCI
- TSBKPCITST
- TSBKPCI12C01A
- TSBKBACKPL
- TSBKPRPHRL

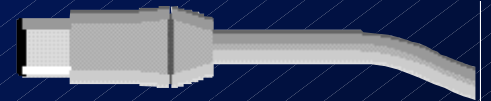




TSBKPCI

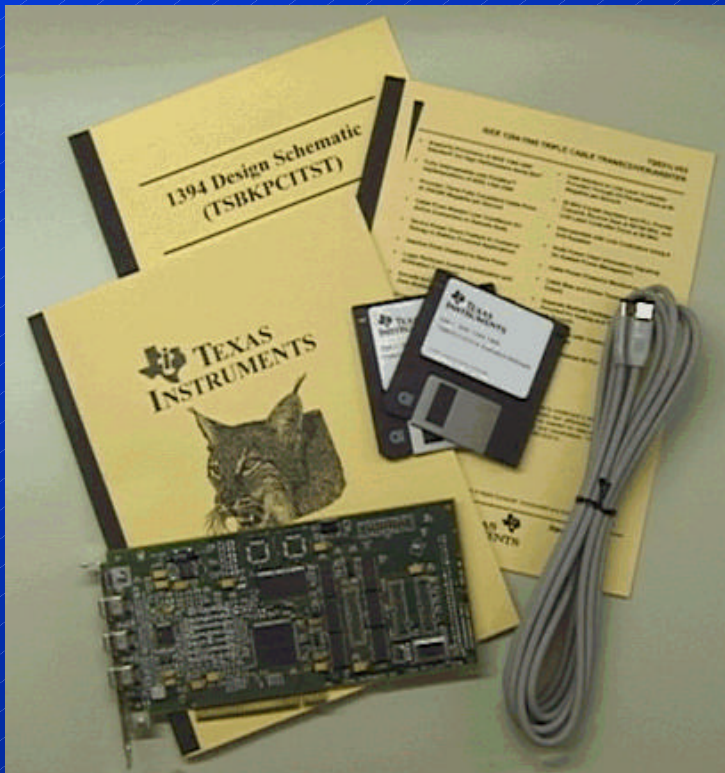


- PCILynx and TSB21LV03
- Serial EEPROM, power circuit, ZV signals without header
- 200 Mbps
- LynxSoft software drivers for Windows 95
- Reference Design Guide and Programmers User's Guide
- Price: \$275

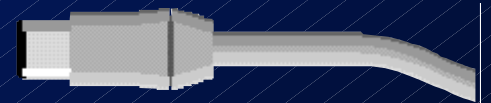




TSBKPCITST

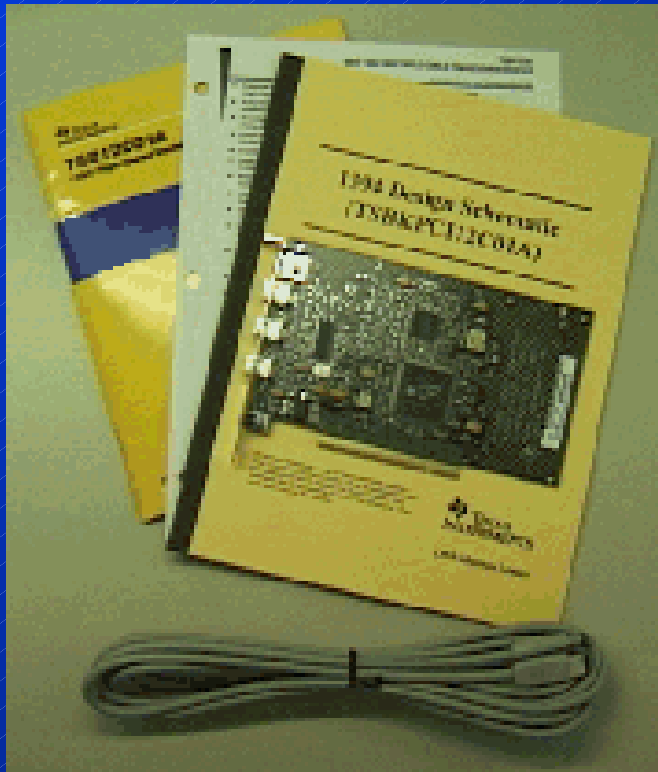


- PCILynx and TSB21LV03
- Serial EEPROM, S-RAM, FLASH ROM, ZV signals on header, room for add'l circuitry
- 200 Mbps
- LynxSoft software drivers for Windows 95
- Reference Design Guide and Programmers User's Guide
- Price: \$1,000

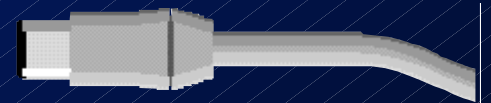




TSBKPCI12C01A

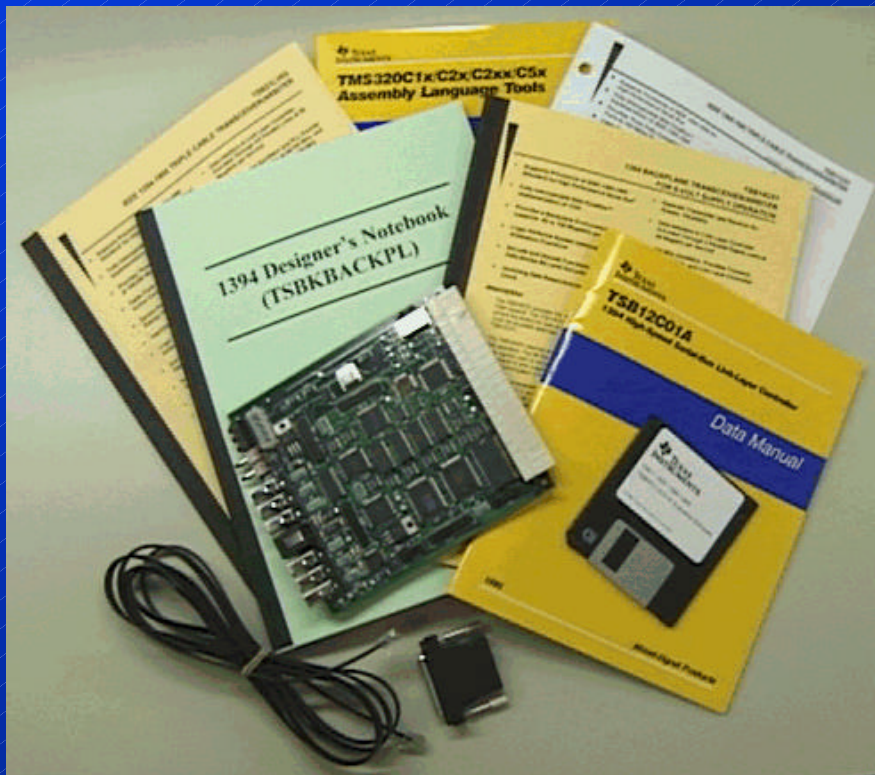


- TSB12C01A and TSB11C01
- Glue logic to communicate between PCI bus and 12C01A
- 100 Mbps
- Sample code for both Windows 3.1 and Windows 95
- Reference Design Guide
- Price: \$1,000

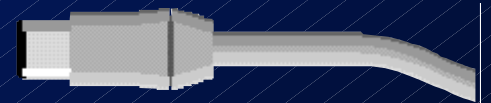




TSBKBACKPL

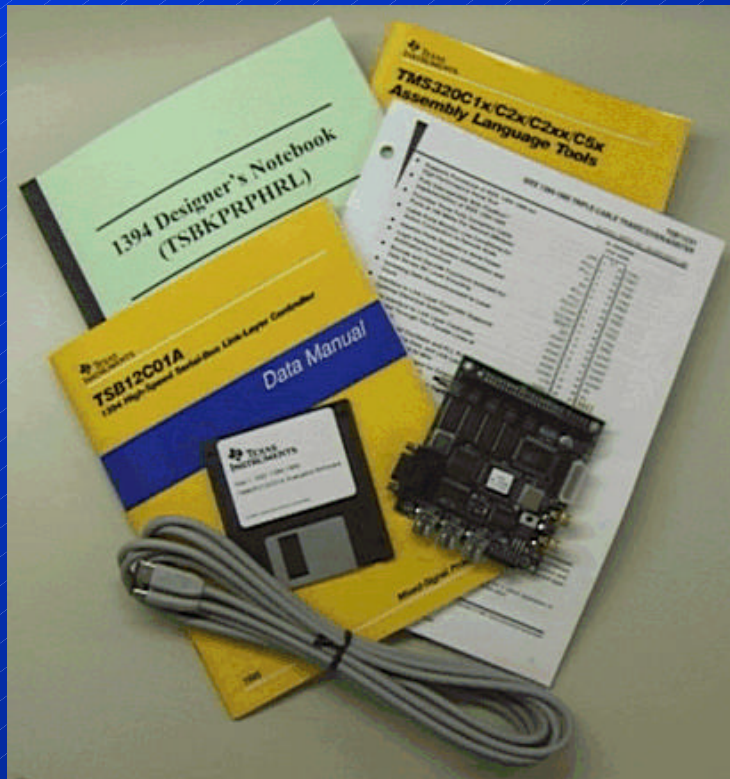


- TSB12C01A (Qty 3), TSB11C01, TSB14C01 and TSB21LV03
- FB1650 BTL (FutureBus+) transceiver, TMS320C52 DSP controller
- 50, 100 and 200 Mbps
- Software for packet transfers and testing
- Reference Design Guide
- Price: \$2,000

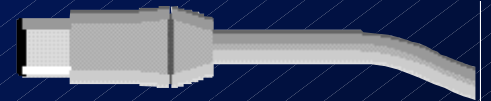


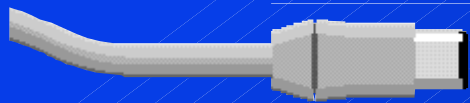


TSBKPRPHRL

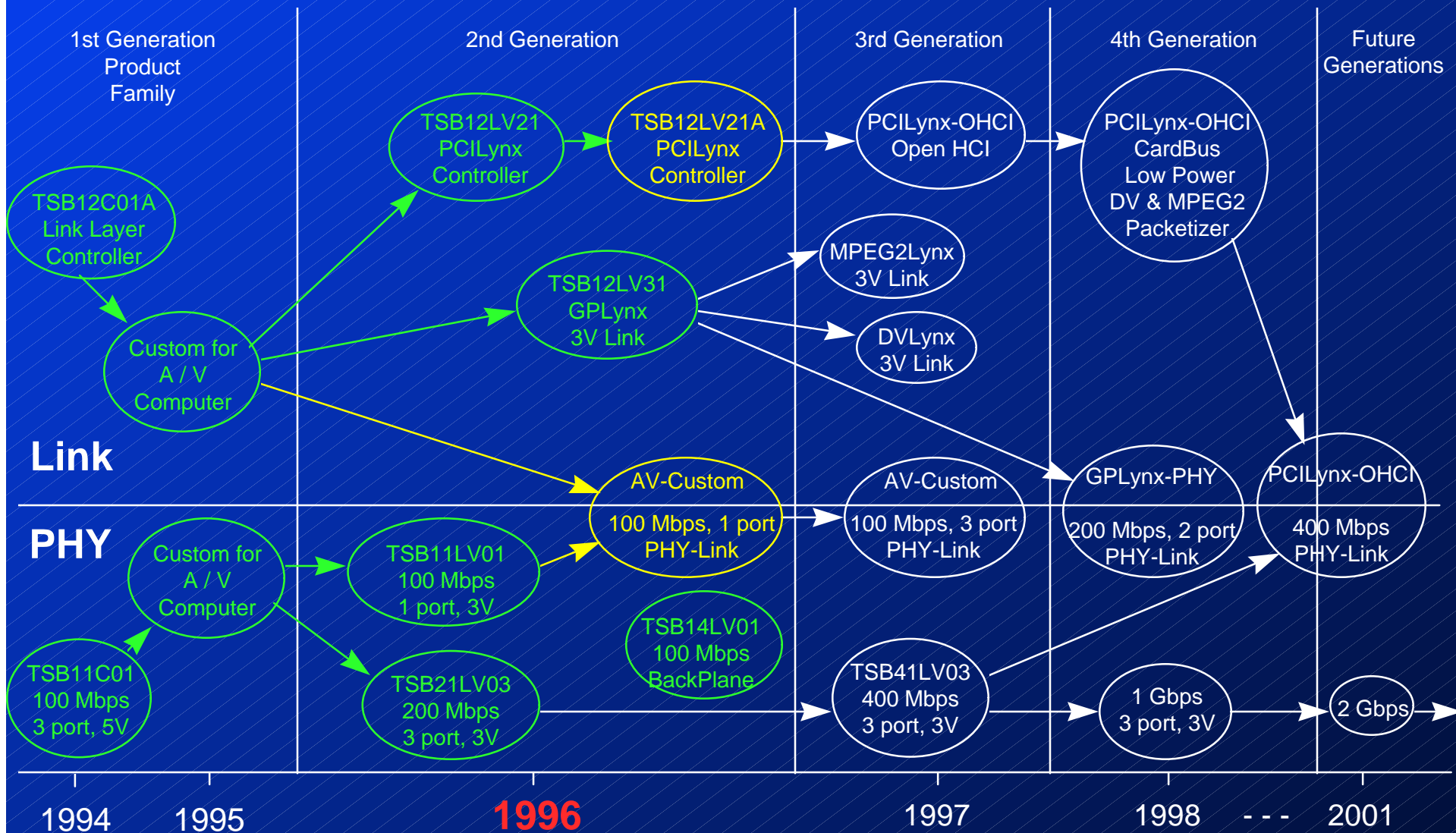


- TSB12C01A* and TSB11C01
 - TMS320C52 DSP controller, PC-104 I/F ISA Bus, A/D - D/A converters
 - 100 Mbps
 - Software for packet transfers and testing
 - Reference Design Guide
 - Price: \$1,000
- * The TSB12C01A will be replaced by the TSB12LV31 in a later version





1394 / FireWire Roadmap



green = released
yellow = sampling

3-DEC-96

Texas Instruments

Texas Instruments





Information

- For more information visit our web pages.
 - <http://www.ti.com/sc/1394>
- Contact me directly
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