

Literature Watch

ASICs

Function blocks speed up chip development. Designers can select parts from a library of blocks to assemble high-performance ICs for many volume applications. John Gosch; Electronic Design, 5/1/92, pg 101, 4 pgs.

Buses

Parallel bus connects PC-hosted DSP and data-acquisition boards at 6 MSamples/s. Peter Fletcher; Electronic Design, 5/14/92, pg 32, 4 pgs.

Memory

Caches and low voltage steer memory development. Rodney Myrvaagnes; Electronic Products, 4/92, pg 49, 5 pgs.

Miscellaneous

A clash of giants shakes the low-end workstation market. Rick Whiting; Electronic Business, 4/27/92, pg 87, 3 pgs.

Assistive technology computers and persons with disabilities. Carl Brown, High Tech Training Center; Communications of the ACM, 5/92, pg 37, 10 pgs.

Consortia: are they getting better? Peter Burrows; Electronic Business, 5/18/92, pg 47, 5 pgs.

Consortia: start-up no more, JESSI gets down to business. Barbara N. Berkman; Electronic Business, 5/18/92, pg 69, 2 pgs.

Consumer electronics! That's where Apple must go and I know how to get there. Is John Sculley day-dreaming or can he lead Apple—and perhaps the U.S.—back into the consumer world? David Webb; Electronic Business, 5/18/92, pg 30, 5 pgs.

Crystal oscillators provide precision in high-speed systems. Tom Ormond; EDN, 5/7/92, pg 89, 6 pgs.

Data communications. High-speed schemes, such as copper FDDI and Fiber Channel, promise to

allow engineers to design systems that take advantage of LANs' utility without reducing system performance or breaking the bank. Maury Wright; EDN, 5/7/92, pg 135, 9 pgs.

Fast and dense digital chips extend the performance curve at the CICC. Dave Bursky; Electronic Design, 5/1/92, pg 43, 7 pgs.

Inside Intel: it's moving at double-time to head off competitors. Business Week, 6/1/92, pg 86, 7 pgs.

Is this any way to sell computers? Zeos thinks so. Hawking unglamorous but reliable machines by mail, plus nimble service, has made it 1991's fastest-growing electronics company. H. Garrett De Young; Electronic Business, 5/18/92, pg 83, 2 pgs.

Liquid-crystal displays: high-resolution panels target laptop computers. Dave Pryce; EDN, 4/23/92, pg 61, 6 pgs.

Multimedia moves from the drawing board to tangible products. Richard Nass; Electronic Design, 5/14/92, pg 56, 9 pgs.

Notebook PC makers struggle to survive at "sub-survival" prices. Rick Whiting; Electronic Business, 5/18/92, pg 125, 3 pgs.

Pen-based computing. Pen computers still have problems recognizing handwriting, but their ease of use and mobility make them suitable in situations where conventional computers just won't do. Gary Legg; EDN, 4/23/92, pg 137, 9 pgs.

Peripheral Chips

Analog IC combines five functions for battery power management. Richard A. Quinnell; EDN, 4/23/92, pg 99, 1 pg.

Digital video chips merge multiple inputs. Advanced signal-processing techniques produce studio-quality video from multiple sources. Milt Leonard; Electronic Design, 5/14/92, pg 49, 4 pgs.

IC's 8, 14-bit DACs share resistor ladder for MSBs. Frank Goode-nough; Electronic Design, 5/1/92, pg 85, 4 pgs.

Video codec chip set provides MPEG, P*64, and JPEG compliance. Maury Wright; EDN, 4/23/92, pg 102, 2 pgs.

Processors

IBM's power play. Big blue intends to prosper by spreading the RISC gospel for computers large and small. Lawrence Curran; Electronics, 5/92, pg 9, 2 pgs.

IC merges 32-kbyte flash EPROM with 16-bit micro. John Gosch; Electronic Design, 5/14/92, pg 99, 3 pgs.

RISC μ P enlarges instruction cache and adds data cache. Ray Weiss; EDN, 5/7/92, pg 119, 2 pgs.

Programmable Logic

FPGA market booms, but too many vendors could sink profits. Patent fights, price pressures, and the emergence of third-party tools will cull winners from losers. Hugh G. Willett; Electronic Business, 5/18/92, pg 113, 3 pgs.

Migrating to FPGAs: any designer can do it (part 2). Doug Conner; EDN, 4/23/92, pg 120, 12 pgs.

Silicon interconnects render breadboards passe. A 1024-pin land-grid array lifts prototyping into the realm of totally programmable hardware systems. David Maliniak; Electronic Design, 5/1/92, pg 114, 2 pgs.

System Design

Maintain signal integrity at high digital speeds. Yong-In S. Shin, Philips-Signetics Corporation; Electronic Design, 5/14/92, pg 77, 9 pgs.