

Description

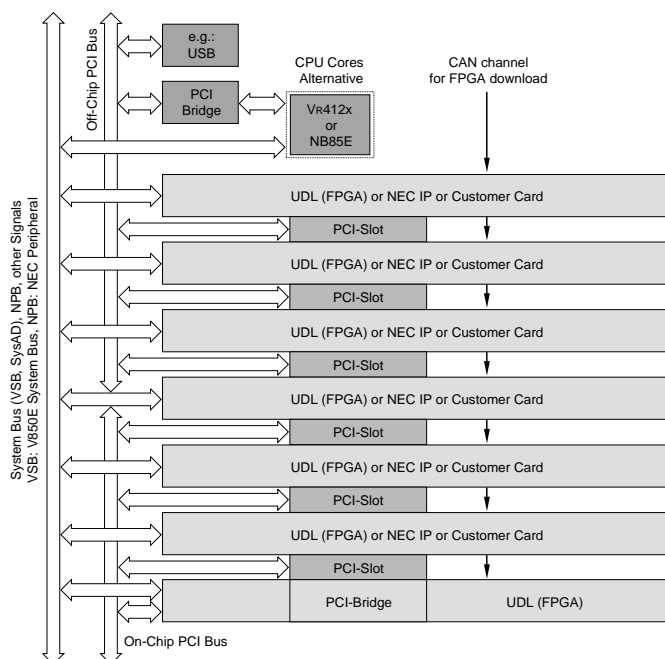
The COREBEST™ is a new, revolutionary hardware-based development and evaluation tool from NEC for rapid prototyping and evaluation of SOC projects. Composed of a CPU board, a base board and several IP boards, COREBEST allows to mimick a system on a chip with its individual IP blocks. This enables the system evaluation before the IC itself is manufactured. As with COREBEST the hard- and software design and verification can take place in parallel, the total turn-around time of a SOC project is significantly reduced. Software support like real-time operating systems and on-chip debugging is available. In addition, COREBEST can also be used for architecture benchmarking.

Features

- Two CPU families are supported: V850E and Vr
- IP boards (i.e. using FPGA) with user defined logic and with NEC IP supported as well as PCI bus based boards from the market supported
- Usage of customer designed IP boards supported
- Hardware debugging support: N-Wire, logic analyzer connectors, socket (ROM emulator)
- Software debugging support: Debug monitor, RTOS (OSEK, VxWorks)
- Support of on- and off-chip PCI bus (three slots each)
- Up to seven slots for IP boards
- Graphical user interface for FPGA download support
- Three serial channels and Ethernet on base board (off-chip interface)
- ATX chassis with power supply and CPU core independent base board



System Block Diagram



System@IC
Solutions on a Chip



NEC Offices

NEC Electronics (Europe) GmbH, Oberrather Str. 4, D-40472 Düsseldorf,
Tel. (02 11) 65 03 01, Fax (02 11) 65 03-3 27

NEC Electronics (Germany) GmbH, Kanzlerstr. 2, D-40472 Düsseldorf,
Tel. (02 11) 65 03 02, Fax (02 11) 65 03-4 90
- Podbielskistr. 164, D-30177 Hannover, Tel. (05 11) 3 34 02-0, Fax (05 11) 3 34 02-34
- Arabellastr. 17, D-81925 München, Tel. (0 89) 92 10 03-0, Fax (0 89) 91 31 82
- Industriestr. 3, D-70565 Stuttgart, Tel. (07 11) 9 90 10-0, Fax (07 11) 9 90 10-19

NEC Electronics (BNL) - Boschdijk 187a, NL-5612 HB Eindhoven,
Tel. (0 40) 2 44 58 45, Fax (0 40) 2 44 45 80

NEC Electronics (Scandinavia) - Täby Centrum, Entrance S (7th floor),
S-18322 Täby, Tel. (08) 6 38 08 20, Fax (08) 6 38 03 88

NEC Electronics (France) S.A., 9, rue Paul Dautier, B.P. 187,
F-78142 Velizy-Villacoublay Cédex, Tel. (01) 30 67 58 00, Fax (01) 30 67 58 99

NEC Electronics (France) S.A., Representacion en Espana,
Juan Esplandiu 15, E-28007 Madrid, Tel. (01) 5 04 27 87, Fax (01) 5 04 28 60

NEC Electronics Italiana S.R.L., Via Fabio Filzi, 25A, I-20124 Milano,
Tel. (02) 66 75 41, Fax (02) 66 75 42 99
- Rome Office, Via Monte Cervialto, 131, I-00139 Roma,
Tel. (06) 8 86 22 91/2, Fax (06) 8 86 22 39

NEC Electronics (UK) Ltd., Cygnus House, Sunrise Parkway, Milton Keynes,
GB-MK14 6NP, Tel. (0 19 08) 69 11 33, Fax (0 19 08) 67 02 90
- Scotland Office, Block 3, Carfin Industrial Estate, Motherwell GB-ML1 4UL,
Tel. (0 16 98) 73 22 21, Fax (0 16 98) 83 38 68

© Published by NEC Electronics (Europe) GmbH, Printed in Germany, February 2000
Document No. A14706EE1V0PL00

COREBEST is a trademark of NEC Corporation.

With compliments

NEC makes no warranty with respect to this documentation and disclaims any implied warranties of merchantability or fitness for particular purpose. NEC does not assume any responsibility for circuits shown or claim that they are free from patent infringement. Product specifications are subject to change without notice. To ensure that you have the latest product data, please contact your local NEC sales office.

© NEC Electronics (Europe) GmbH