SC3XXX Low Skew Clock Drivers

- Up to 20 Clock Outputs (Optional 10 Outputs)
- All Outputs Leading Edge Synchronized to £ 500 ps
- Source Series Terminated – No Additional On-Board Termination Required
- Support TTL Output Clock Rates to 80 MHz
- Accepts Either TTL or Differential PECL (+5 V Referenced ECL) Inputs
- Small Outline 52-Pin PQFP Package (Optional 28-Pin SOIC)

Clock Driver Selection Guide				
	Output Frequency with Respect to Input Frequency			
P/N	Total Outputs	Number of Outputs : 1	Number of Outputs : 2	Number of Selectable Outputs : 2 or : 4
SC3401	A.	1:1	: +1 :: 2	A +2 :: 1
SC3505	A.	1:1	::1	N/A
SC3307	20	1:1	N/A	10 :2 : 4
SC3508	20	20	N/A	N/A
SC3517	10	5	N/A	5 :2 :4
SC3519	10	1:1	N/A	N/A
SC3509	9	5	4	N/A
CC3527	10	9	1	N/A
SC3520	10	10	N/A	N/A
SC3529	10	10	N/A	N/A
SC3583	14	8	8	N/A

*Also available in SV

AMCC's SC3XXX family of clock drivers are specifically designed to distribute multiple clock signals. The drivers distribute up to 20 copies of a reference clock with low skew while effectively limiting induced ground noise. Use of a complementary (source and sink) 24 mA peak output driver limits leading edge skew among all outputs to £ 500 ps at frequencies up to 80 MHz.

These circuits provide "source (series) termination" designed to match the impedance of the most common printed circuit board (PCB) traces. The combination of the patented output driver with source termination effectively eliminates overshoot and undershoot without any additional on-board termination networks. The drivers are designed to support symmetrical rise/fall times of less than 1.5 nS without "ground bounce." AMCC has the broadest line of precision clock and timing products designed to meet the needs of your i960® microprocessor-based system.

PROCESSORS SUPPORTED:
i960® Processor Family

AVAILABILITY:
Production quantities available now

CONTACT:
Applied Micro Circuits Corporation
6195 Lusk Blvd.
San Diego, CA 92121-2793
Phone: (800) 755-2622
FAX (619) 450-9885
e-mail: ctpr@amcc.com
For international contacts see Appendix B.

AMCC