

Cardinal Components, Inc.  
Wayne Interchange Plaza II  
155 Route 46 West  
Wayne, NJ 07470  
Phone 973-785-1333  
Fax 973-785-0053  
Email [cardinal@cardinalxtal.com](mailto:cardinal@cardinalxtal.com)  
URL <http://www.cardinalxtal.com>

## PRESS RELEASE

### PROGRAMMABLE LVDS AND LVPECL OSCILLATORS AVAILABLE FROM STOCK

---

---

Wayne, NJ—June 11, 2004—Cost reduction, noise reduction, component reduction, higher available frequencies, low jitter and reduced power consumption are just a few benefits of Cardinal Components' new line of programmable low voltage differential signaling (LVDS) and programmable low voltage positive emitter coupled logic (LVPECL) devices.

"Product of the Year" winner in 2000 and 2002, Cardinal Components, Inc., has unveiled its new line of programmable LVPECL (CPPHE Series) and LVDS (CPPHV Series) devices suitable for such applications as telecom, digital VCR's, Ethernet, WAN interfaces, routers, set top boxes, and transferring data from cameras to PC's.

The programmable LVDS device uses a 300mV differential signaling. The appealing feature of the LVDS part is that it lowers the power consumption and reduces the noise of the clocking circuit (EMI). The programmable LVPECL device uses a 600mV differential signaling which simplifies peripheral circuit interfacing. These new programmable oscillators use a supply voltage of 3.3 volts, have a stability of 50 ppm, operate over a temperature range of -40C to +85C, can be programmed from 150 MHz to 700 MHz, and are available from stock.

These revolutionary products are available through Cardinal Components, Inc., or its authorized stocking distributors worldwide.

You can learn more about Cardinal Components, Inc., and Cardinal's other products by visiting its website at [www.cardinalxtal.com](http://www.cardinalxtal.com) or by contacting Tom Ferron at 973-785-1333.