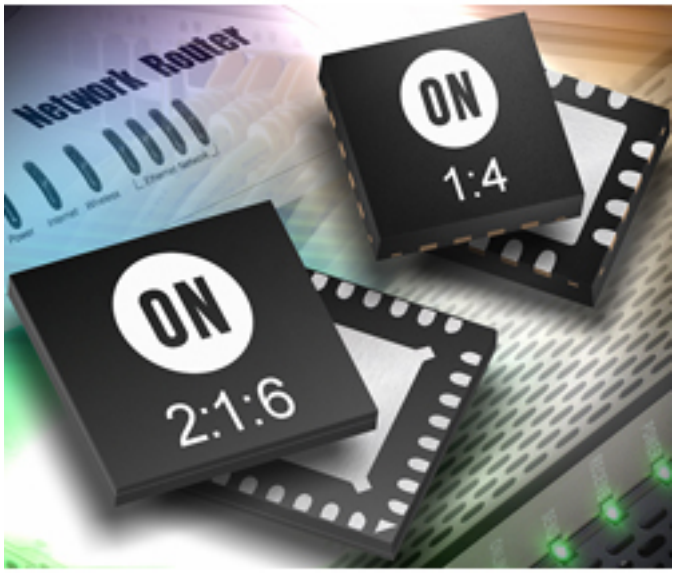
ON Releases New Clock Driver



PHOENIX, Ariz. – Jan. 26, 2010 – ON Semiconductor, a premier supplier of high performance, energy efficient silicon solutions for greener electronics, today announced an expansion of its family of clock drivers, with the release of the NB7L585, NB7L585R, NB7V585M and NB7V586M differential 2:1 mux input to 1:6 devices, and the NB6HQ14M and NB7HQ14M 1:4 fanout clock/data drivers with equalization.

The NB6HQ14M and NB7HQ14M integrate a selectable equalizer receiver into a high performance differential 1:4 CML clock driver. When placed in series with a data path operating at up to 6.5 gigabits per second (Gbps) or 10 Gbps the inputs will compensate the degraded signal and output four identical CML copies of the original input signal. The serial data rate is thereby increased by reducing Inter-Symbol Interference (ISI) caused by losses in the copper interconnect or long cables.

The NB7L585, NB7L585R, NB7V585M, and NB7V586M are the newest members of the Gigacomm™ family representing a new 2:1:6 function integrating a 2:1 mux with a 1:6 fanout buffer. The NB7L585 and NB7L585R are 2.5 V / 3.3 V devices with either Low Voltage Positive Emitter Coupled Logic (LVPECL) output or Reduced Swing Emitter Coupled Logic (RSECL) output of 400 millivolt (mV) peak-to-peak, respectively. The NB7L585 operates up to 5 gigahertz (GHz) or 8 Gbps and the NB7L585R operates up to 7 GHz or 10 Gbps.

The NB7V585M is an ultra low voltage device operating from a 1.8 V / 2.5 V power supply. The NB7V586M operates from an ultra low 1.8 V supply and offers the 6 outputs configured as three banks of two differential pairs. Each bank of outputs has the flexibility to be powered by any combination of either 1.8 V or 1.2 V supplies. Both devices operate up to clock/data rates of 6 GHz / 10 Gbps.

The specifications achieved by these clock drivers make them highly suited to use in SONET, Gigabit Ethernet, Fiber Channel, backplane and other clock/data distribution applications. The ambient operating temperature of each of these devices covers ?40 °C to +85 °C.

“The system designs for telecom switches, servers and routers are under pressure to support ever increasing clock and data interfaces and voltage levels without compromising on the signal quality,” said Prescott Sakai, director, clock and data management business unit, ON Semiconductor. “The company’s new clock drivers enable new integrated functions with equalization features that support various interfaces and low voltage level options. These devices maintain higher signal integrity at data rates that the competing suppliers simply cannot match.”

Pricing for the NB7L585, NB7L585R, NB7V585M, NB7V586M, NB6HQ14M and NB7HQ14M start from $5.25 in 1,000 unit quantities. They are all offered in low profile 3 mm x 3 mm 16-pin or 5 mm x 5 mm 32-pin Pb-free QFN packages. Samples are available now.

For more information, please visit http://www.onsemi.com.