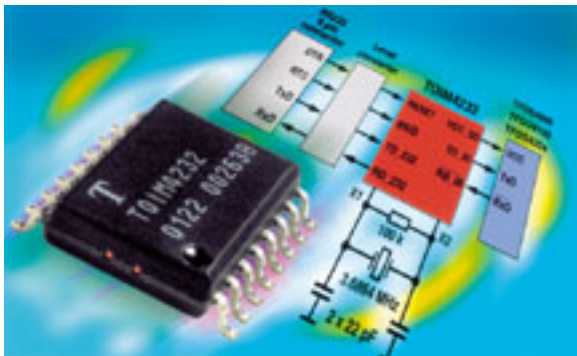


Pulse Shaping IC for Infrared Data Interface



Vishay has announced a new pulse-shaping integrated circuit for IrDA data transmission implementations that will act as a pin-to-pin compatible successor to the TOIM3232 serial infrared (SIR) interface IC. Built on a CMOS technology with sub-micron channel lengths of 0.35 μm , and featuring a lower supply voltage of 3.3 V in a virtually unchanged logical design, the new Vishay Telefunken TOIM4232 lowers power consumption for the pulse-shaping function in UART-related IrDA SIR applications.

The TOIM4232 Endec IC provides pulse shaping for front-end IR transceivers in Vishay's 4000 series as specified by the IrDA standard, acting as a direct interface between the 4000 Series SIR receiver and a UART or an added level shifter RS232 port. In transmit mode, the new integrated circuit shortens the UART/RS232 output signal to IrDA-compatible pulses of 1.6 μs or 3/16 of the bit duration required to drive the IR transmitter. In receive mode, the TOIM4232 stretches IR pulses to bit widths appropriate to the current operating bit rate, which may range from 1.2 kbit/s to 115.2 kbit/s, including all IrDA-SIR bit rates.

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<http://www.wirelessdesignmag.com/product-releases/2002/04/pulse-shaping-ic-infrared-data-interface>