



A receiver interface (*Fig. 1*) and a transmitter interface to the microcontroller (*Fig. 2*) show the approach, which was successfully tested with a sensor using 10 ft of CAT5e cable. As an added benefit, no software modification was needed for the implementation.

Girish Choudankar, PEng at [Emphatec Inc.](http://www.emphatec.com), holds a bachelor's degree in electronics engineering from Mumbai University, India. He can be reached at gchoudankar@emphatec.com.

Source URL: <http://electronicdesign.com/communications/standard-bus-buffer-easily-extends-1-wire-signal-board>