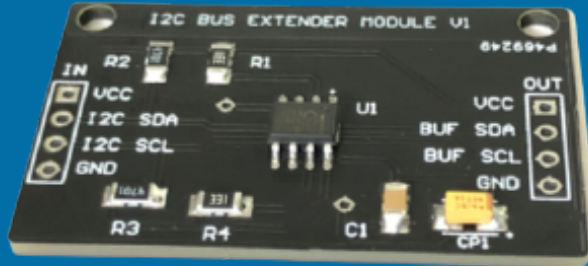
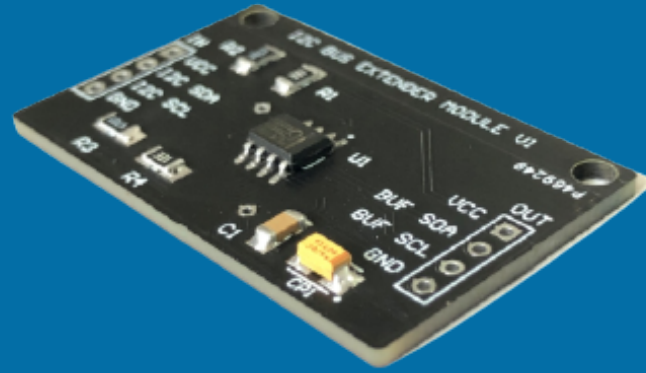
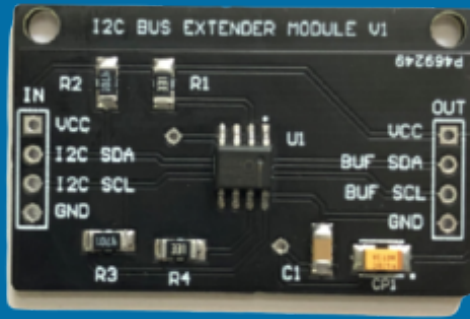


I2C Bus Extender



Product Overview:

- This module is designed to enable long-range I2C communications which extend the cable length from few meters to about 50 meters this gives more flexibility in sensor placement in the field or away from the microcontroller unit.
- Operating with any I2C master, slave or bus buffer is the primary advantage of this module. NXP P82B715 I2C bus extender IC is used as the main component of this module.
- The module has four pull-up resistors on board: two on the unbuffered bus side and another two on the buffered bus side.

Features:

- Operating Power :- Supply Voltage Range of 3 V to 12 V
- Supports Bidirectional Data Transfer of I2C Bus Signals
- Allows Bus Capacitance of 400 pF on Main I2C Bus (Sx/Sy Side) and 3000 pF on Transmission Side (Lx/Ly Side)
- Dual Bidirectional Unity-Voltage-Gain Buffer with No External Directional Control Required
- Drives 10× Lower-Impedance Bus Wiring for Improved Noise Immunity
- Multi-Drop Distribution of I2C Signals Using Low Cost Twisted-Pair Cables
- I2C Bus Operation Over 50 Meters of Twisted-Pair Wire
- Latch-up Performance Exceeds 100 mA Per JESD 78, Class II

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