The SN74AVCA164245 (or SN74AVCB164245) is a level-shifting logic buffer capable of translating from levels as low as 1.4-V up to a maximum of 3.6-V. It is ideally suited for interfacing with the lower-voltage microprocessor to the 3.3-V LCD module. Below is a block diagram showing the integration of the translation logic device onto the LCD module.