

## LPC2148 Pin Configuration for Key Components

Component	LPC2148 Pin(s)	Description
<b>LCD Display (16x2)</b>	IO1.16 (RS), IO1.17 (EN), IO1.18 (D4), IO1.19 (D5), IO1.20 (D6), IO1.21 (D7)	Control + Data lines for 4-bit LCD interface
<b>Keypad Rows (Input)</b>	IO0.14, IO0.15, IO0.16, IO0.17	Row inputs (4 rows) for keypad scanning
<b>Keypad Columns (Output)</b>	IO0.10, IO0.11, IO0.12, IO0.13	Column outputs (4 columns)
<b>Buzzer</b>	IO0.18	Buzzer control output
<b>LED</b>	IO0.19	LED indication output
<b>7-Segment Displays</b>	(Not explicitly given - usually multiplexed via GPIO pins, optionally with 74HC595 shift registers)	Multiplexed display control, connected to GPIO pins

