**LCD 8039**

This lcd is commonly found on feature phones it’s a 1.8’ lcd found on 90% of all button Chinese feature phones

**20-pin 8080 parallel LCD pinout**:

| **Pin No** | **Symbol** | **Description** |
| --- | --- | --- |
| 1 | LEDK | **Backlight Cathode (Ground)** |
| 2 | LEDA | **Backlight Anode (+3.3V or +5V)** |
| 3 | GND | **Ground (0V)** |
| 4 | VDD | **Power Supply (+3.3V or +5V)** |
| 5 | NC | **Not Connected** |
| 6 | NC | **Not Connected** |
| 7 | CS | **Chip Select (Active Low)** |
| 8 | RESET | **Reset Pin (Active Low)** |
| 9 | RS | **Register Select (Command/Data)** |
| 10 | WR | **Write Enable (Active Low)** |
| 11 | RD | **Read Enable (Active Low)** |
| 12 | D7 | **Data Bit 7** |
| 13 | D6 | **Data Bit 6** |
| 14 | D5 | **Data Bit 5** |
| 15 | D4 | **Data Bit 4** |
| 16 | D3 | **Data Bit 3** |
| 17 | D2 | **Data Bit 2** |
| 18 | D1 | **Data Bit 1** |
| 19 | D0 | **Data Bit 0** |
| 20 | GND | **Ground (0V)** |

**Next Steps for Wiring It Up:**

1. **Confirm the LCD Controller** – If it's **ILI9325, ILI9341, or SSD1963**, you can use libraries like **TFT\_eSPI**.
2. **Choose a Microcontroller** – **STM32 with FSMC**, **ESP32 (parallel interface models)**, or **Arduino Mega**.
3. **Handle Backlight Power** – Connect **LEDA** to power (**3.3V or 5V**) and **LEDK** to ground.
4. **Test Basic Graphics** – Try initializing the display and sending simple text to verify communication.