

DIY Portable Windows Tablet – Wiring Diagram & Pinout

1. Power Wiring Diagram (Textual Representation)

3 × 18650 Li-ion Cells (3S Series)
→ 3S BMS (Battery Management System)
→ Buck Converter (12V to 5V)
→ LattePanda Board + 7" IPS Display

2. Power Pinout Configuration

Component	Pin	Connection
Battery Pack	+ / -	Connected to BMS B+ and B-
3S BMS	P+ / P-	Connected to Buck Converter VIN+ / VIN-
Buck Converter	OUT+ / OUT-	5V to LattePanda & Display
LattePanda	5V / GND	From Buck Converter
Display	5V / GND	From Buck Converter

3. Signal Wiring Configuration

Signal Type	From	To
HDMI Video	LattePanda HDMI Port	7" IPS Display HDMI Input
Touch Data (USB)	Touch Panel USB	LattePanda USB Port

4. Notes & Safety

- Buck converter output must be adjusted to 5.1V before connection.
- All grounds must be common.
- No custom PCB is used; jumper wires are sufficient.
- BMS is mandatory for lithium battery safety.