

# 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.