

PHYSICAL AI

EliteMind

Product Specifications

A modular Physical AI platform for AI learning and real-world practice, combining VLM capability, dual cameras, touch control, omnidirectional mobility and flexible expansion.



Key Specifications



6 TOPS
AI Computing Power



2 MP × 2
Front and Rear Cameras



2.8"
Capacitive Touchscreen



20 Built-In
Vision AI Models



4 Closed-Loop Motors
Up to 1 m/s Omnidirectional Motion



5 + 6
Expansion Ports and Bus Interfaces

Visual Reference



Gripper



AI VLM Module



Touchscreen Controller

Controller

Core Control and Touch Interface

The controller manages interaction, wireless connectivity, motion control and bus expansion through a 2.8 inch color capacitive touchscreen.

Detailed Specifications

Item	Specification
Clock Frequency	240 MHz
Memory	8 MB RAM + 16 MB PSRAM
Display	2.8 inch color capacitive touchscreen
Onboard Sensors	6 axis accelerometer and dual microphones
Onboard Actuator	1 speaker
Battery	10.8 V / 2000 mAh lithium battery
Wireless	Bluetooth, WiFi
Buttons	2
Bus Interfaces	6

AI VLM Dialogue Module

Vision Language Intelligence

The independent AI VLM module delivers 6 TOPS of computing power, dual 2 MP cameras, large model dialogue and 20 built in vision AI models.

Module Specifications

Item	Specification
AI Compute	6 TOPS
Memory	128 MB
Display	2.4 inch, 380 × 640 IPS, fully laminated capacitive touchscreen
Cameras	Dual 2 MP front and rear cameras
Audio	1 silicon microphone and 3 W speaker
Other	1 button, 1 fill light, 1 TF card slot and WiFi
Built in AI Models	20 models, including face detection and recognition; object recognition, tracking and classification; color recognition; instance segmentation; palm and keypoint detection; gesture recognition; human keypoint detection; pose recognition; license plate recognition; line tracking; label recognition; QR and barcode recognition; fall detection; and more
Built in Apps	Camera, video recording and real time image transmission
AI Capability	Supports large model dialogue

Motion

Chassis, Actuators, Sensors, and Interfaces

The four-wheel mecanum chassis enables omnidirectional movement, while the actuators, sensors, and expansion interfaces support real-world building and experimentation.



Mecanum-Wheel Chassis

Drive	4 wheel independent
Size	190 × 130 × 90 mm
Rated Speed	350 rpm
Max Speed	1 m/s

Motion Forward, reverse, lateral, diagonal and in place rotation

External Modules and Expansion



External Actuators

- 4 closed loop motors
- Operating voltage 5 V
- No load speed 210 ± 10 rpm



External Sensors

- 1 light sensor
- 1 TOF sensor
- Wireless connection
- Broadcast and point to point transmission



Expansion

- 5 expansion ports
- Supports external sensors, AI Modules and other expansion modules

Visual Reference



Light Sensor



TOF Sensor



Expansion Area