MULTI-MODAL BIPED ROBOT **EMPOWER INNOVATORS**

TRON1

Voice Interaction Kit

LIMX DYNAMICS

Voice Interaction Kit

Equipped with NVIDIA NX module and high-fidelity microphone array, TRON 1 supports voice wake-up, speech control, enhancing human-like interaction and adaptability across diverse scenarios—ideal for embodied AI education, guided narration, and interactive exhibitions.

Supports customizable wake words and offline command sets; compatible with deployment of various LLM for multilingual and multi-scenario voice interaction.

Built-in AI Voice Interaction Framework: for navigation/Q&A development.

Rich Open-Source Examples: For faster onboarding and lower development barriers and fast-track your projects.

Technical Specifications

Product Name	TRON 1 Voice Interaction Kit
Model Number	TRON1-AP-VI
Compatible Modes	Sole / Wheeled
GPU	NVIDIA Ampere architecture 1024 CUDA Cores 32 Tensor Cores
GPU Max Frequency	1173MHz
AI Performance	157 TOPS (Sparse) 78 TOPS (Dense)
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
CPU Max Frequency	2.0GHz
SPEC int rate	167
Memory	16GB 128-bit LPDDR5 102.4GB/s
Storage	M.2 SSD (256GB standard) Supports External NVMe
Pickup Range	≤4m
Microphone Array Coverage	360°
Supported Languages	Mandarin, English
Customization Support	Wake words, LLM deployment (e.g. qwen2.5:3b、llama3.2:3b), Speech synthesis

Accessories List

Category	Qty/Unit
Audio Module • Mic Array • Mounting Plate • Power Cable	1 set
AI Computing Module • Jetson Orin NX 16GB • Power Adapter Module • Power Cable • Power Extension Cord	1 set
Mounting Plate	1 pc
Mounting Bracket	2 pc
Ethernet Cable	1 pc
Assembly Kit • Screws • Hex Key	1 pack
Huawei Router (Optional)	1 set
Quick Start Guide	1 pc