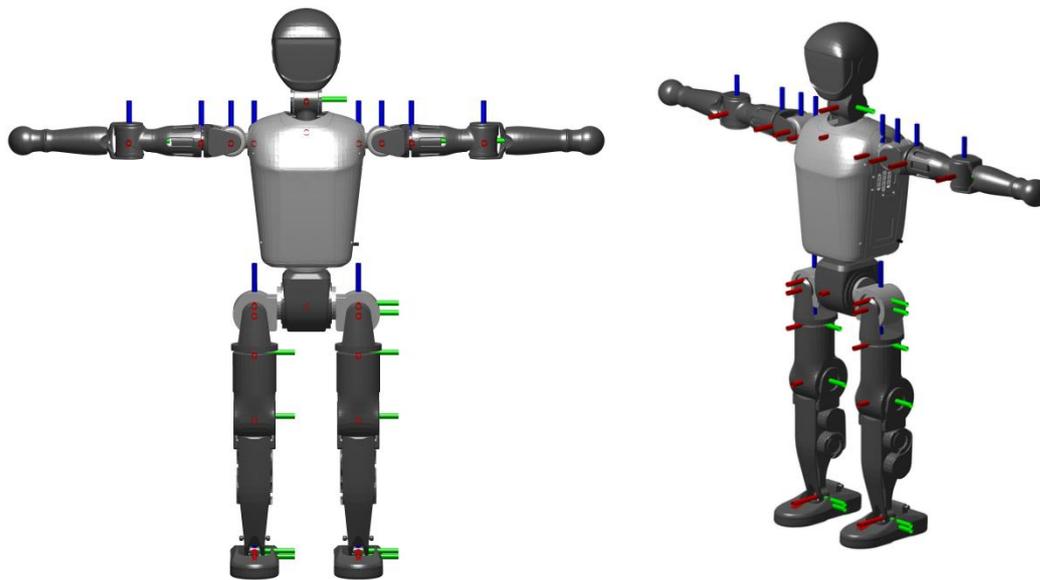


T1 Instruction Manual - V1.5



Controller

Version	Basic	Standard	
	Basic board	Motion control board	Perception board
Processor	Jetson AGX Orin 32GB	Express-i7	Jetson AGX Orin 32GB
Computing performance	8-core Cortex-A78AE CPU@2GHz Tensor Cores GPU@930MHz AI performance: 200 TOPS	6P cores + 8E cores P core maximum frequency: 4.80 GHz E core maximum frequency: 3.90 GHz	8-core Cortex-A78AE CPU@2GHz Tensor Cores GPU@930MHz AI performance: 200 TOPS

Memory	32GB	8GB	32GB
Storage	512GB	512GB	512GB
Wired Network	1000M*2	1000M*2	1000M*2
Wireless Network	WIFI6*1	WIFI6*1	WIFI6*1
Audio	Microphone, speaker		Microphone, speaker

Type	Specification Parameters	Description
Basic Parameters	Height (when standing upright)	1.18m
	Weight	About 30kg
DoFs	Total DoFs	23
	Single Leg DoFs	6
	Single Arm DoFs	4 (expandable)
	Waist DoFs	1
	Head DoFs	2
Operational Parameters	Walking Speed	0.5m/s
	Turning Speed	1.5rad/s
Battery Parameters	Battery Life	1.5h
	Charging Time	≤2h
	Cycle Life	≥500 times
Computing Platform	Basic	AGXOrin*1
	Standard	i7 *1
		AGXOrin*1
Sensors	Camera	Depth Camera
	Microphone	Microphone Array
	Speaker	1
Safety Fuction	Robot Emergency Stop	1
	Auditory Alerts	Low Battery Alert, Joint Overheat Alert
Communication Methods	Wireless Connection	WIFI 6
	Bluetooth	Bluetooth 5.2
	Certification Standards	CE/FCC
Noise	Walking Noise	≤70dB
Environmental Adaptability	Environmental Adaptability	-10°C~45°C
	Operating Humidity	5%~90%, without condensation