

ROBOTIX MARKET

SERIES BROCHURE
2026 edition

ENGINEAI · FULL-SIZE HUMANOID
ROBOTS · ROBOTIX MARKET

T800 Series

Basic, Open Source, Pro and
Max: EngineAI's full-size
general-purpose humanoid
robot

One 173 cm platform in four editions: the
release version, the open development
platform, dexterous hands with force
control, and the most articulated Max.



Available worldwide from Robotix Market
robotixmarket.com

OVERVIEW

One full-size humanoid, four editions

The EngineAI T800 is a full-size, general-purpose humanoid robot: 173 cm tall, with joints of up to 450 N·m and a hardware-supported movement speed of 3 m/s or more. EngineAI builds it in four editions on the same body. The Basic is the release version with an Intel depth camera. The Open Source adds stereo vision, LiDAR and AGX Orin 64G compute and is open for secondary development. The Pro adds two 7-DoF dexterous hands and linear force control. The Max adds 7-DoF arms, a 3-DoF waist and neck and an enhanced chest and back, for 46 degrees of freedom.

A full-size humanoid

173 cm tall with 91 cm legs and 60 cm arms, 75–85 kg depending on edition. EngineAI builds the T800 as a general-purpose robot for peak performance and long-endurance operation.

Fast on its feet

A hardware-supported movement speed of 3 m/s or more, with active cooling in every leg joint, which EngineAI rates for 4 hours of continuous operation.

Compute to build on

An Intel robot PC (RK3588 optional) in every edition plus an AI PC: Orin NX 16G on the Basic, an upgradeable AGX Orin 64G on the Open Source, Pro and Max, which also support secondary development.

450 N·m joints

Planetary joints with absolute dual encoders and up to 450 N·m of torque on every edition; the Pro and Max add linear force control.

360° perception (Open Source, Pro, Max)

Stereo vision and LiDAR with millisecond-level processing of environmental data and an open visual hardware interface; the Basic uses an Intel depth camera.

Swap the battery, keep working

A quick-release smart battery on every edition: 20 Ah ternary lithium as standard (2.5 h charge) or an optional 40 Ah solid-state pack (3 h charge), for 4–5 hours per charge.



173 cm

HEIGHT

450 N·m

PEAK JOINT
TORQUE

≥ 3 m/s

MOVEMENT SPEED

4–5 h

PER CHARGE

25–46

DOF BY EDITION

Which T800?

FOUR EDITIONS ON ONE BODY, CHOSEN BY WHAT YOU WILL BUILD

Basic

Release edition

- 25 degrees of freedom
- Intel depth camera
- Orin NX 16G AI PC

Open Source

Open for secondary development

- 25 degrees of freedom
- Stereo vision + LiDAR
- AGX Orin 64G AI PC

Pro

Dexterous hands, force control

- 43 DoF incl. two 7-DoF hands
- Planetary + linear force control
- Stereo vision + LiDAR, AGX Orin 64G

Max

The most articulated edition

- 46 DoF: 7-DoF arms, 3-DoF waist and neck
- Enhanced chest and back design
- Dexterous hands, force control, AGX Orin 64G

Basic · Open Source · Pro · Max compared

	Basic	Open Source	Pro	Max
	Release edition	Release edition, open for secondary development	Dexterous hands and linear force control	Most degrees of freedom; enhanced chest and back
BODY				
Height	173 cm			
Weight	75–85 kg, varies by edition			
Thigh + lower leg	91 cm			
Arm length	60 cm			
Degrees of freedom, total	25	25	43 (29 + 14 in the hands)	46 (32 + 14 in the hands)
Per leg / per arm	6 / 5	6 / 5	6 / 5	6 / 7
Waist / neck	1 / 2	1 / 2	1 / 2	3 / 3
Hands	—	—	Dexterous, 7 DoF each	Dexterous, 7 DoF each
Internal wiring	Hollow, fully articulated			
MOTION				
Maximum joint torque	450 N·m			
Joint type	Planetary	Planetary	Planetary + linear force control	Planetary + linear force control
Joint encoders	Absolute dual encoder			
Movement speed (hardware-supported)	≥ 3 m/s			
PERCEPTION AND COMPUTING				
Perception	Intel depth camera	Stereo vision + LiDAR; open visual hardware interface	Stereo vision + LiDAR; open visual hardware interface	Stereo vision + LiDAR; open visual hardware interface
Robot PC	Intel module (RK3588 optional)			
AI PC	Orin NX 16G	AGX Orin 64G, upgradeable	AGX Orin 64G, upgradeable	AGX Orin 64G, upgradeable
Secondary development	—	Supported	Supported	Supported
Communication	Wi-Fi, Bluetooth, USB, LAN			
POWER				
Battery (quick-release smart battery)	Ternary lithium 20 Ah, 71.4 V as standard · solid-state 40 Ah, 74.8 V optional			
Charging time	2.5 h ternary lithium · 3 h solid-state			
Runtime per charge	4–5 h			
EQUIPMENT				
Lighting	2 headlamps, 2 chest lamps, knee lamps			
Microphone and loudspeaker	Yes			
Handheld remote control	Yes			

— means the feature is not part of that edition. Weight: EngineAI publishes one 75–85 kg range that varies by edition. Where a value spans all four columns, it is the same on every edition.

What the T800 is made of

Head: perception and lamps

Stereo vision and LiDAR on the Open Source, Pro and Max, an Intel depth camera on the Basic; two headlamps

Arms: 60 cm

5 DoF per arm, 7 on the Max; 7-DoF dexterous hands on the Pro and Max, rated by EngineAI for a 5 kg payload

Chest: lamps, microphone, speaker

Two chest lamps, a microphone and a loudspeaker on every edition

Hollow internal wiring

Cabling runs inside the fully articulated body



FRONT



REAR · QUICK-RELEASE BATTERY

Quick-release smart battery

20 Ah ternary lithium as standard or 40 Ah solid-state; 4–5 h per charge

Legs: 6 DoF each

91 cm of thigh and lower leg, active cooling in every leg joint, knee lamps

Waist and neck

1-DoF waist and 2-DoF neck; 3 and 3 on the Max

Joints

Planetary actuators with absolute dual encoders, up to 450 N·m; linear force control on the Pro and Max

173 cm

HEIGHT

75–85 kg

WEIGHT, BY EDITION

91 cm

THIGH + LOWER LEG

60 cm

ARM LENGTH

Joint ranges of motion

AS PUBLISHED BY ENGINEAI FOR THE T800; THEY MAY VARY BY EDITION

Head

Pitch -30° to 30° · yaw -70° to 70°

Shoulder

Pitch -170° to 160° · roll -140° to 22° · yaw -150° to 150°

Elbow

Pitch -131° to 15° · roll -150° to 150°

Wrist

Pitch -25° to 25° · roll -35° to 65°

Waist

Yaw -251° to 71°

Hip

Roll -118° to 62° · pitch -190° to 130° · yaw -81° to 206°

Knee

Pitch -15° to 135°

Foot

Pitch -39° to 39° · roll -15° to 15°

HIGHLIGHTS

What sets the T800 apart



Full-size, athletic motion

173 cm and 75–85 kg, moving at a hardware-supported 3 m/s or more on fully articulated, hollow-wired joints of up to 450 N·m.



450 N·m planetary joints

Absolute dual encoders on every joint and up to 450 N·m of torque; the Pro and Max add linear force control.



Active cooling in every leg joint

The leg joints are actively cooled, which EngineAI rates for 4 hours of continuous operation; the quick-release battery gives 4–5 hours per charge.



Dexterous hands (Pro, Max)

Multi-modal dexterous hands with 7 degrees of freedom each, rated by EngineAI for a 5 kg payload.



360° perception (Open Source, Pro, Max)

Stereo vision and LiDAR with millisecond-level processing of environmental data; the Basic edition uses an Intel depth camera.

From the warehouse floor to the front desk

Logistics and warehouses

EngineAI shows the T800 handling boxes at a conveyor. The Pro and Max hands, with your own task programming, suit pick-and-place trials.

Factories and labs

Machine-side handling in production and test environments, developed on the Open Source, Pro or Max.

Retail

A full-size humanoid on the shop floor for demonstrations and customer-facing presence.

Reception and hotels

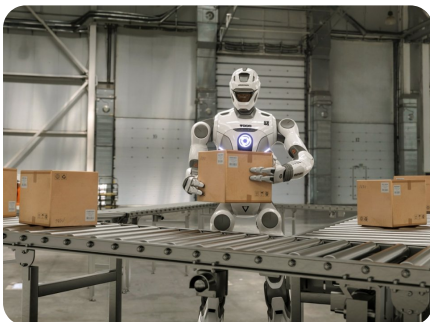
A lobby and front-desk presence, with a microphone, loudspeaker and lighting on every edition.

Research and education

The Open Source, Pro and Max support secondary development, with AGX Orin 64G compute and an open visual hardware interface.

Events and exhibitions

Running, kicking and jumping, as EngineAI shows it, make the T800 a demonstrator that draws a crowd.



In the box: EngineAI lists a quick-release smart battery and a handheld remote control as equipped on every edition. We confirm the full packing list, and the optional 40 Ah solid-state battery, with your quotation.



Developing on the T800

The Open Source, Pro and Max support secondary development, with an Intel robot PC (RK3588 optional), an AGX Orin 64G AI PC whose computing power can be upgraded, an open visual hardware interface and Wi-Fi, Bluetooth, USB and LAN. The Basic is EngineAI's release version, without secondary development.

NEXT STEP

Choose your T800 edition

Tell us what the robot should do, where it will work and whether your team will develop its own software. We will recommend the edition and come back with a configuration, a delivery estimate to your address and a formal quotation.

Request a quotation

Web

robotixmarket.com/products/engineai-t800-full

Open Source, Pro and Max: scan the codes for each edition's page.

Email · info@robotixmarket.com

Current prices for your market are on the product pages; configuration and delivery are confirmed with your quotation. Robotix Market ships worldwide.



Basic



Open Source



Pro



Max

Sourced new

Supplied through established distribution channels.

Manufacturer warranty

Every robot ships with the full EngineAI manufacturer warranty and official documentation.

Support

Technical support is coordinated with the manufacturer's service network.

See it in action

youtube.com/watch?v=FGcQqyCaG5s

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