PUMA Quadruped Wheeled Industrial Robot

Product Specification

Electrical Interface Maximum external output power supply≥300W		Overall Parameters
Rated Payload ≥12kg Maximum Load ≥50kg No-load Runtime ≥3h Rated Payload Runtime ≥3h CPU 8-core 64-bit industrial-grade CPU CPU 8-core 64-bit industrial-grade CPU Maximum Continuous Speed ≥5m/s Maximum Continuous Speed ≥3m/s Maximum Continuous Speed ≥3m/s Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Extreme Test Speed ≥0°C-55°C Ingress Protection IP66 Operating Temperature -20°C-55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h-2h Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 Wide-angle Camera ×2 Electrical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB; Maximum external output power supply≥300W	Standing Size	≤800mm×500mm×600mm
Maximum Load ≥50kg No-load Runtime ≥3h Rated Payload Runtime ≥2.5h CPU 8-core 64-bit industrial-grade CPU Maximum Continuous Speed ≥5m/s Maximum Continuous Speed ≥5m/s Maximum Continuous Step Height ≥22cm Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Environment Parameters Ingress Protection IP66 Operating Temperature -20°C-55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply≥300W	Overall Weight (with batteries)	≤40kg
No-load Runtime ≥3h Rated Payload Runtime ≥2.5h CPU 8-core 64-bit industrial-grade CPU Motion Performance Parameters 25m/s Extreme Test Speed ≥5m/s Maximum Continuous Speed ≥3m/s Maximum Continuous Speed ≥3m/s Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Maximum Slope Gradient Environment Parameters Ingress Protection IP66 Operating Temperature -20°C-55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 (Maximum external output power supply300W)	Rated Payload	≥12kg
Rated Payload Runtime ≥2.5h CPU 8-core 64-bit industrial-grade CPU Motion Performance Parameters Motion Performance Parameters Extreme Test Speed ≥5m/s Maximum Continuous Speed ≥3m/s Maximum Slope Gradient ≥45° (Varies according to surface material) Maximum Slope Gradient ≥45° (Varies according to surface material) Ingress Protection IP66 Operating Temperature -20°C-55°C Operating Temperature -20°C-55°C Sattery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h-2h Laser Radar Sensor Configurations Wide-angle Camera ×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 Maximum external output power supply>300W	Maximum Load	≥50kg
CPU 8-core 64-bit industrial-grade CPU Motion Performance Parameters Extreme Test Speed 25m/s Maximum Continuous Speed 23n/s Maximum Continuous Step Height 222cm Maximum Slope Gradient 245° (Varies according to surface material) Environment Parameters Ingress Protection Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 Wide-angle Camera ×2 Electrical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USBS: Maximum external output power supply>300W	No-load Runtime	≥3h
Motion Performance Parameters Extreme Test Speed ≥5m/s Maximum Continuous Speed ≥3m/s Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Ingress Protection Ingress Protection IP66 Operating Temperature -20°C-55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations Laser Radar Wide-angle Camera ×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Mounting rails on the back of the robot (72V), Gigabit Ethernet Port, USB: Maximum external output power supply=300W	Rated Payload Runtime	≥2.5h
Extreme Test Speed ≥5m/s Maximum Continuous Speed ≥3m/s Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Laser Radar Sensor Configurations Laser Radar ×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply≥300W	CPU	8-core 64-bit industrial-grade CPU
Maximum Continuous Speed ≥3m/s Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Environment Parameters Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Laser Radar Sensor Configurations Wide-angle Camera ×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply>2300W		Motion Performance Parameters
Maximum Continuous Step Height ≥22cm Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Environment Parameters Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Laser Radar Sensor Configurations Wide-angle Camera ×2 Muther Step External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply≥300W	Extreme Test Speed	≥5m/s
Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply≥300W	Maximum Continuous Speed	≥3m/s
Maximum Slope Gradient ≥45° (Varies according to surface material) Environment Parameters Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply≥300W	Maximum Continuous Step Height	≥22cm
Ingress Protection IP66 Operating Temperature -20°C~55°C Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB: Maximum external output power supply≥300W		≥45°(Varies according to surface material)
Operating Temperature -20°C~55°C Battery Parameters Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 Maximum external output power supply≥300W		Environment Parameters
Battery Parameters Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 Maximum external output power supply≥300W	Ingress Protection	IP66
Battery Parameters Battery Capacity (Single) 4.5Ah Charging Time (Single) 1.5h~2h Sensor Configurations 1.5h~2h Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 Wide-angle Camera ×2 External Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 Maximum external output power supply≥300W	Operating Temperature	-20°C~55°C
Charging Time (Single) 1.5h~2h Sensor Configurations Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface Sensor Configurations Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 Maximum external output power supply≥300W Note the risk		Battery Parameters
Sensor Configurations Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface External Interface Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USB3 Maximum external output power supply≥300W	Battery Capacity (Single)	4.5Ah
Laser Radar 48-Line LiDAR×2 Wide-angle Camera ×2 External Interface External Interface Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V), Power Connector (72V), Gigabit Ethernet Port, USBS Maximum external output power supply≥300W	Charging Time (Single)	1.5h~2h
Wide-angle Camera ×2 Wide-angle Camera ×2 External Interface External Interface Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V)、 Power Connector (72V)、 Gigabit Ethernet Port、 USB3 Maximum external output power supply≥300W Note the thermal output power supply≥300W		Sensor Configuration s
External Interface Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V)、Power Connector (72V)、Gigabit Ethernet Port、USB3 Maximum external output power supply≥300W	Laser Radar	48-Line LiDAR×2
Mechanical Interface Mounting rails on the back of the robot (Length×Width: 270mm×165mm) Electrical Interface Power Connector (24V)、 Power Connector (72V)、 Gigabit Ethernet Port、 USB3 Maximum external output power supply≥300W	Wide-angle Camera	×2
Electrical Interface Power Connector (24V)、Power Connector (72V)、Gigabit Ethernet Port、USB3 Maximum external output power supply≥300W		External Interface
Electrical Interface Maximum external output power supply≥300W	Mechanical Interface	Mounting rails on the back of the robot (Length×Width: 270mm×165mm)
Software Interface Provide up-level application development interfaces, low-level joint interfaces, and related	Electrical Interface	Power Connector (24V)、Power Connector (72V)、Gigabit Ethernet Port、USB3.0 Maximum external output power supply≥300W
code, etc	Software Interface	Provide up-level application development interfaces, low-level joint interfaces, and related exar code, etc
Product List		Product List

Optional: Autonomous Charging Post

Product Highlights

- Medium size, balancing size and performance with flexible movement and load capacity.
- Equipped with dual LIDAR, supports positioning and map building, navigation and obstacle avoidance.
- Dual-battery quick-disconnect hot-swap, support for battery replacement during operation without downtime; support for autonomous charging, to achieve 24-hour continuous operation.
- IP66 grade protection, dustproof and waterproof design, adaptable to -20°C~55°C environment, fearless of harsh environments, to ensure that the equipment lasts and operates reliably.
- Top-down view of the 360° point cloud of the environment, easy to select the target point with one click, lowering the threshold of remote control.

