



- *High mobility 6WD platform*
- *Open system with multiple interfaces*
- *Fully programmable under Linux or Windows*
- *Embedded LAN and mesh WI-FI networking*

# **U-TROOPER**

## *multi-purpose platform*

The micro-trooper platforms are characterized above all by a great flexibility allowing the robots to be used in multiple environments and situations. Their articulated mechanical design and their six wheel drive allow the micro-trooper to evolve outdoor over rough terrain and even overcome obstacles up to 18cm high. Their relatively small dimensions and weight make them easily transportable while remaining suitable for all kind of uses and applications as they offer many expansion possibilities at different levels. They include a very capable industrial board under Linux or Windows XP featuring a large choice of accessible interfaces like Ethernet, RS232, USB2, keyboard and mouse input, VGA output, and wireless mesh-networking capabilities (wi-fi), ideal for multi-robot applications. An IP camera, a battery charger and a multi-robot control interface are included. Additional optional components such a GPS, IR range sensors or an ethernet-serial bridge can be integrated upon request.



# Features

**Processor:** AMD Geode LX800  
Freq: 500MHz  
RAM: 512MB  
FLASH: 1GB

**Interfaces:** 2x Ethernet 10/100 BaseT  
4x USB 2.0  
4x RS232  
1x RS232-ethernet bridge

**WiFi:** WiFi 802.11b  
Seamless Roaming  
Mesh Network (OLSR)  
WLAN AP, Client or Ad-hoc  
Ethernet-Wifi bridge  
1x Antenna 5dBi

**Sensors:** 1x Pan-Tilt IP camera  
2x 300 CPR codewheel  
Battery level  
4x IR range sensors (option)  
1x GPS receiver(option)

**Software:** PID speed control  
Mesh topology graph  
Google maps support  
RTMIX video mixing  
Internet remote control

**Motors:** 6x motors 12V  
50:1  
16.7 Kg-cm  
152 rpm

**Size:** Length : 513 cm  
Width : 405 cm  
Height : 154 cm  
Weight : 6Kg

**Batteries:** 12V NiMh  
10000 mAh  
2h autonomy  
Easy replacement  
Charger included

