

# Mobile Robotics Development Kit

## Product datasheet

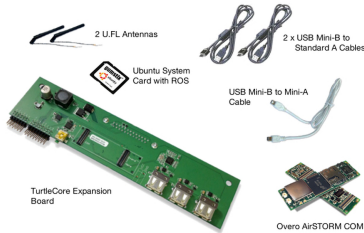
KIT0039

USD289.00

The Gumstix Mobile Robotics Development Kit brings the power of Ubuntu Linux with Robot Operating System (ROS) to the iRobot Create's incredible robotics platform combining it with the WiFi/Bluetooth-enabled Overo AirSTORM computer-on-module and the TurtleCore expansion board (tailor-made for the iRobot Create).

This kit includes:

- TurtleCore expansion board
- Overo AirSTORM-Y COM
- Ubuntu System Card for Overo
- 2 USB Cable (mini-B to standard-A)



### Product Features

Communications	
<b>Bluetooth</b>	Included
<b>USB Console Port</b>	Included
Robotics	
<b>Connect to iRobot Create®</b>	via the DB-25 connector; the iRobot Create® "cargo bay connector".
Memory	
<b>Flash Memory (NAND)</b>	512
Processor	
<b>Performance</b>	Up to 2,000 Dhrystone MIPS
<b>Processor</b>	Texas Instruments Sitara AM3703
<b>Processor Architecture</b>	ARM Cortex-A8
<b>Processor Base Clock</b>	1 GHz (Recommended @ 800MHz)
Misc	
<b>Power</b>	Powered by iRobot Create®
Power	
<b>Power Management</b>	Texas Instruments TPS65950
Usb	
<b>USB Device</b>	Included
<b>USB Host</b>	Included

### Other connector

2 × USB Mini-B to Standard-A Cable

### Mating connector

- 1 × U.F.L. Connector
- 1 × Hirose 27-Pin Camera Connector (Overo COMs)
- 2 × 70-Pin AVX Connector (Male Overo COMs)
- 2 × 70-Pin AVX Connectors (Female Overo Expansion)

### What's included

- 1 × Overo AirSTORM-P
- 1 × TurtleCore
- 1 × Overo System Card (Ubuntu 8GB)

### Key component

- 1 × U.F.L. Antenna with Collar
- 1 × microSD Card Slot
- 1 × Texas Instruments TPS65950 Power Management
- 1 × W2CBW0015 Wifi+Bluetooth Module
- 1 × Micron 512MB DDR LPDRAM & 512MB NAND Flash Memory
- 1 × Texas Instruments AM3703 Applications Processor
- 1 × DB25 Connector
- 1 × Texas Instruments TPS62111 Step-Down Converter
- 1 × FTDI FT232RQ USB UART Interface

### Product links

- [Geppetto®Workspace](#)

