

SymBot®

The SymBot is the sensor network interface for Symboticware’s data collection platform. It collects data from sensors, stores timestamped data into an internal database and, using Symboticware’s patented store-and-forward technology, transmits the data over existing infrastructure to SymView, the centralized server and data aggregator. The SymBot has been designed, built and tested for tough environments both physically and technologically: developed for underground mines, it can withstand harsh physical conditions as well as perform when offload connectivity isn’t always available.



WIRELESS CAPABILITIES

| | |
|------------------|--|
| WIFI | 802.11 b/g/n/ac 2x2 true MIMO |
| CELLULAR | 3G/4G/LTE |
| SATELLITE | For remote deployments with low bandwidth requirements |
| BLUETOOTH | BT 4.0 BLE |

POWER

| | |
|-------------------------|----------------------------------|
| INPUT VOLTAGE | 9 - 36 VDC |
| CURRENT REQUIRED | 0.25 A @ 12V |
| OUTPUT VOLTAGE | 5 VDC @ 1A or Input Voltage @ 1A |

INPUT CAPABILITIES

| | |
|-----------------------|---|
| ETHERNET | 10/100 Mbps |
| USB | 1x USB 2.0, Host or OTG |
| SERIAL | 2x RS-232 or 1x RS-485 Half/Full Duplex |
| CAN | 2x FlexCAN |
| ANALOG/DIGITAL | 4x 0-5V, 0-10V, or 4-20mA |
| BLUETOOTH | Client and Server modes available |

PHYSICAL SPECIFICATIONS

| | |
|--|---|
| Dimensions | 5" x 4.5" x 1.75" [13cm x 11.5cm x 4.5cm] |
| Weight | 2.5 lbs [1.1 kg] |
| Operational/Storage Temperature | -40°C to 85°C |
| Ingress Protection | IP67-rated enclosure |
| Warranty | 1 year hardware |

FEATURES

| | |
|----------------------|--|
| STORAGE | 16GB, expandable to 256GB data collection storage |
| CPU | Dual-Core 1.0 GHz, single-core 200MHz ARM co-processor |
| EXPANDABILITY | OBD-II, CAT Data Link, Wireless RTU Base, Analog Input Expansion |

Applications: vehicle telemetry and fixed asset monitoring

COMPACT, SINGLE BOX

Everything is packaged together in a single enclosure; one of the smallest in the industry.

SIMPLE STATUS INDICATORS

Complete status of asset gleaned from a quick glance.



MADE IN CANADA

Designed, manufactured, and tested in Canada.

TRUE MIMO CAPABILITY

Need better coverage? The SymBot can connect to a second WiFi antenna and offer true 2x2 MIMO for increased offload capability.

EXPANDABILITY

Need a custom sensor set or package? The SymBot has a built-in expansion port ready for your specialized needs.



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