

## Data Collection Unit (DCU)



DCU and mounting bracket



DCU and battery pack



Front View of DCU

### Key features and benefits

- TrailerMASTER goes beyond GPS, multiple location technologies can be called upon to calculate the trailer's position.
- Data is sent by GSM/GPRS giving near global coverage and is used by over 3 billion people and more than 212 countries and territories worldwide.
- Fitted with a 433Mhz transceiver, the DCU offers the capability to monitor external sensors such as door status or tyre pressure.
- The DCU can be configured to report by timed interval, by time-of-day and/or upon detection of motion. There are 1000's of different combinations; Axscend's experts will help you get set up.
- Configuration of the DCU is done remotely from [www.axscend.com](http://www.axscend.com).
- The robust DCU enclosure has been built to withstand tough environmental conditions and goes beyond industry standards.

### How the DCU is fitted



Mounting bracket makes installation quick and easy



Mounting bracket is bolted to the trailer



DCU screws into the mounting bracket

# Technical Specification



## GPS PERFORMANCE (50 CHANNEL)

RF Reception Sensitivity:	-160 dBm tracking -143 dBm acquisition
Signal Acquisition Hot:	< 1 sec
Warm:	< 32 sec
Cold:	< 32 sec
Re-acquisition:	< 0.5 sec

## ACCURACY

Position Outdoor:	< 2.5m
Velocity (Outdoor):	< 0.1 ms <sup>-1</sup>

## GSM/GPRS PERFORMANCE (Quad Band)

GPRS Class 10:	Max 85.6 kbps
GSM phase 2/2+ compliant	
Output Power GSM850/900	2W
Output Power GSM1800/1900	1W

## POSITION FIXES STORED

(In Internal Memory) Up to 4,000 events

## PHYSICAL

DCU Dimensions:	207mm (L) x 118mm (W) x 34mm (H)
Mounting Bracket Dimensions:	211mm (L) x 150mm (W) x 15mm (H)
Weight:	360g
Enclosure:	Polycarbonate / ABS

## ENVIRONMENTAL

Operating / Storage Temp:	-20°C to +85°C / -40°C to +85°C
Dust / Water Ingress Protection:	Sealed to IP69K
Chemical Resistance:	Resists salt spray and most fluids used in industrial applica- tions

## POWER

Internal Battery:	Lithium Thionyl Chloride
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## POWER EFFICIENCY

Period of autonomous operation is 3 years;  
assuming typical usage

## ALARMS

Motion:	> 0.25G
Temperature:	+/- 2°C
Battery Low:	< 25% (configurable)
Geo-Fencing:	
Input-triggered Alarms Enabled by Web Data Portal	

## INTERFACES

Wireless:	433Mhz transceiver
Web Interface:	Enables remote monitoring and configuration of trailerMASTER over the web

## OPTIONS/ACCESSORIES

Axscend wireless interfaces are available to support  
trailerMASTER. Contact us for further information.

## CERTIFICATIONS

CE, E-Mark

