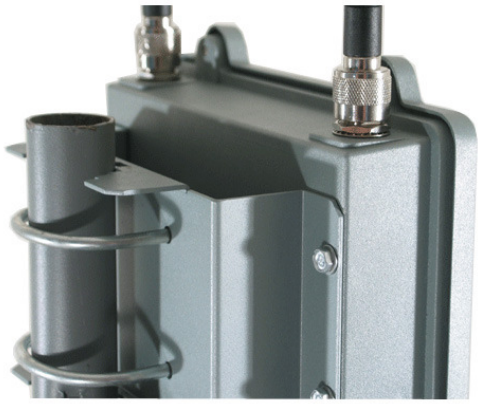
Data Collector
DC12
Technical data



Features

- In built Quad-band GPRS engine
- AT command set support for GPRS
- Sub 1 GHz low-power radio for communication to 6LOWPAN network
- SMPS power supply with 6kV surge protection
- Real-time clock
- Battery backup facility for RTC and Memory
- Optional socket for IEEE 802.15.4 Compliant radio (2.4GHz or 5.6GHz)

The DC12 Data Collector is a South African design.

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DC12 Technical Specification

DC12 Technical Specifications

General		
Communication Modules		**Specifications - GPRS**
SIM900B Quad-band GSM/GPRS		Quad band GSM/GPRS
Sub 1GHz Low-power RF narrowband radio module		GPRS Class B Class 2 with maximum speed
		(Network dependant)
Optional IEEE 802.15.4 wideband radio module		
		Remote control by AT commands
Processor 32-bit ARM Cortex		
Power 1-Phase/2 wire, 220Vac, 50Hz		Over-the-air software upgradeable
Battery Rechargeable Li-ion, 3.7V@2200mAh		
Enclosure Anodized Aluminum NEMA 67 rating		Baud rate – 300 to 115200 bits/sec
Mounting Pole- or Wall mount		
Temperature -10℃ to +55℃		3V SIM interface
Dimensions 180 x 125 x 50		
Weight < 1.5 kg		Maximum transmit output power 30dBm ± 2 dB
Humidity 95% Non-condensing		
		Receive sensitivity < -104dBm Static
Specifications – RF module		Input voltage - 5Vdc
Programmable frequency (300 – 1000 MHz)		Current – 1.8A peak, 400mA average
Programmable output power 0 to +27 dBm		
Modulation Binary FSK		SMA antenna connector
Over-the-air software upgradeable		
Baud rate 9600 bits/sec		
Receive sensitivity < -109dBm		
Frequency channels 12 channels		
Channel spacing 100 kHz		
Input voltage 3.6Vdc		
Transmit current ≤ 400mA		
Receive current ≤ 40 mA		
SMA antenna connector		