

EZdog

Telit Cellular GSM Engine with ARM 9 LINUX operating system
GPS modem, 3 Axis sensor and Micro SD card



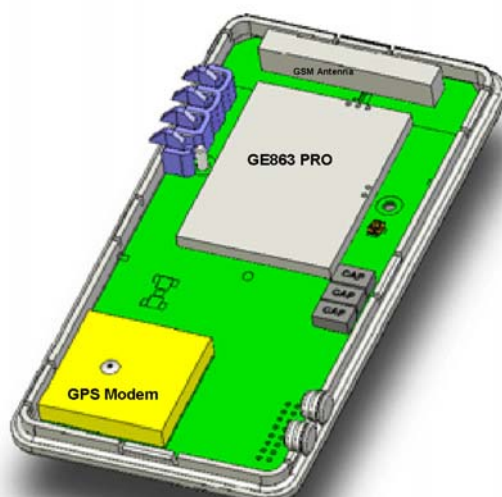
Hardware guide Version: 01.01 Update: 02. OCT .2009
EZdog_Hardware Guide_V1.

EZdog Hardware Interface Description
Not Released

Hardware Interface Description

1. Hardware Features of the EZdog

Feature	Implementation
Incorporates Telit GE863 PRO module	The Telit module handles all GSM processing for, signal and data within the EZdog.
Incorporates ARM 9	Power full controller with 128MB Flash 64MB RAM. With LINUX operating system inside
Frequency bands	Quad band: GSM 850/900/1800/1900MHz
Power supply	Single supply voltage 5V to 30V
Operating temperature	-20°C to +70°C ambient temperature in plastic enclosure
Physical	Dimensions: 113mm x 56mm x 15mm Weight: 140g
RoHS, WEEE	All hardware components are fully compliant with the EU RoHS and WEEE Directives
ADC and GPIO inputs	<ul style="list-style-type: none"> • 2 outputs 250ma each • 2 inputs for 4-20ma sensors • 2 inputs for 0 to 30V (use for IGNTION and DOOR detect) • 2 inputs counters
Low energy support	Unit can work on 10ma consumption
Communication	RS232 (only Tx, Rx)



2. Interface Description

2.1 Overview

EZdog provides the following connectors for power supply and Interface.

There are 2 cables each 4 wires:

Cable 1:

Pin number	Description
1	input power + 5 to 30V
2	GROUND
3	IGNITION
4	OPEN COLLECTOR 1

Cable 2:

Pin number	Description
1	ADC 1
2	ADC2
3	COUNTER 1
4	DOORS

2.2 Power Supply

The power supply of the EZdog Terminal has to be a single voltage source of POWER 5V-30V capable of providing a peak during an active transmission. The EZdog Terminal is protected from supply voltage reversal. An internal fuse ensures an electrical safety according to EN60950-1. This fuse is not removable. A fast acting fuse 0.8A with melting is necessary to use with the EZdog at a 24V power supply system for vehicles.

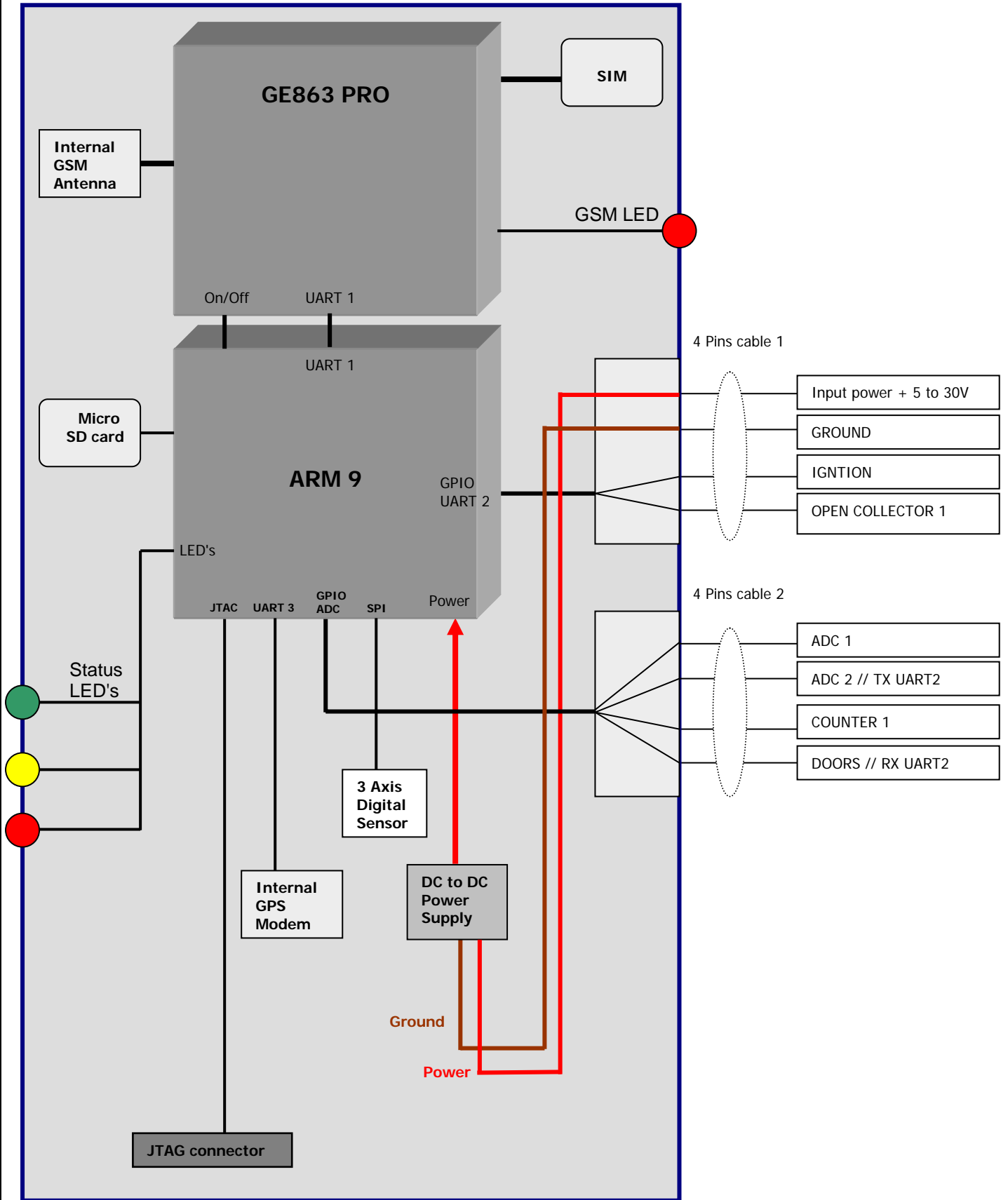
2.2.1 Supply voltage requirements

The DC power supply must be connected to the POWER input:

- Input voltage range 5 - 30V DC
- Nominal Voltage 12V DC
- Power Supply current rating: max. 2A @12V
- Power Supply ripple: max. 120mV
- Input current in idle mode: 20mA @ 12V
- Input average current in communication mode: 100mA @ 12V

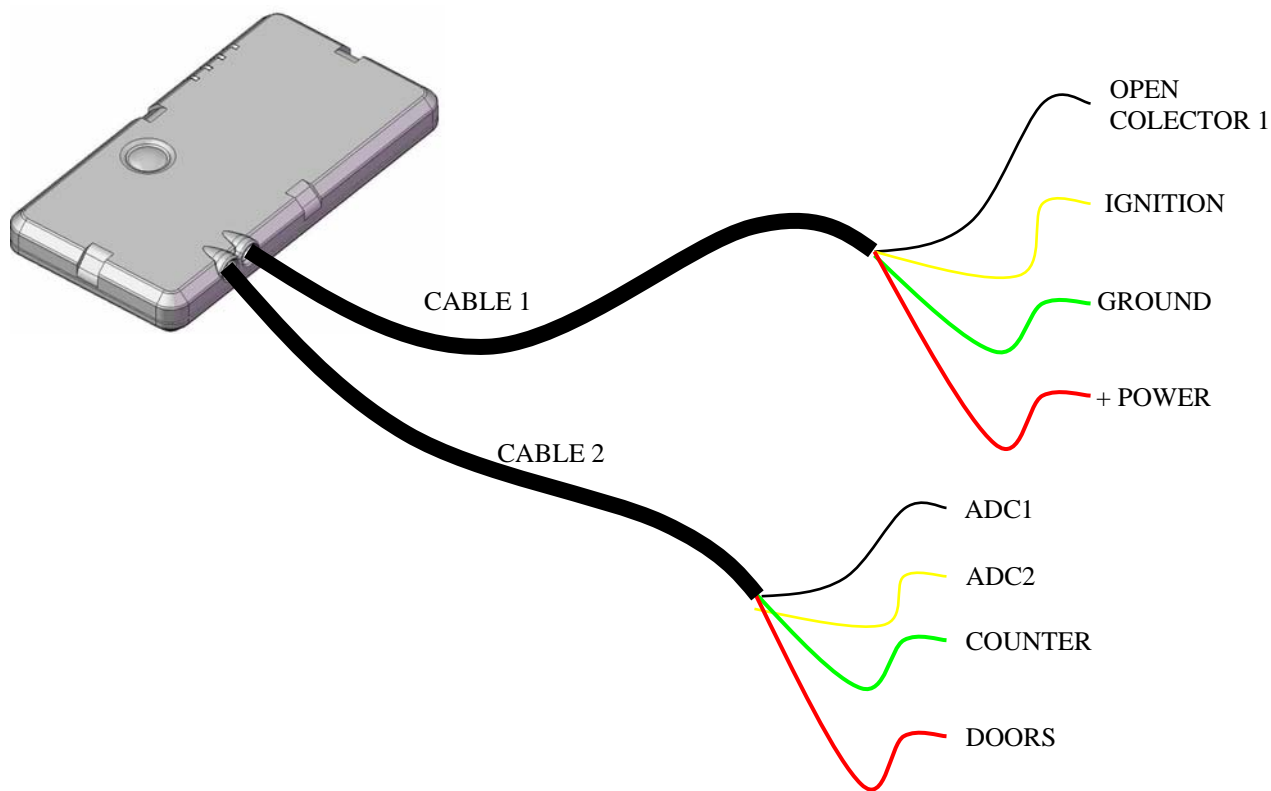
2.4 EZdog main Block Diagram

Figure 3 shows a block diagram of a sample configuration that incorporates the EZdog.



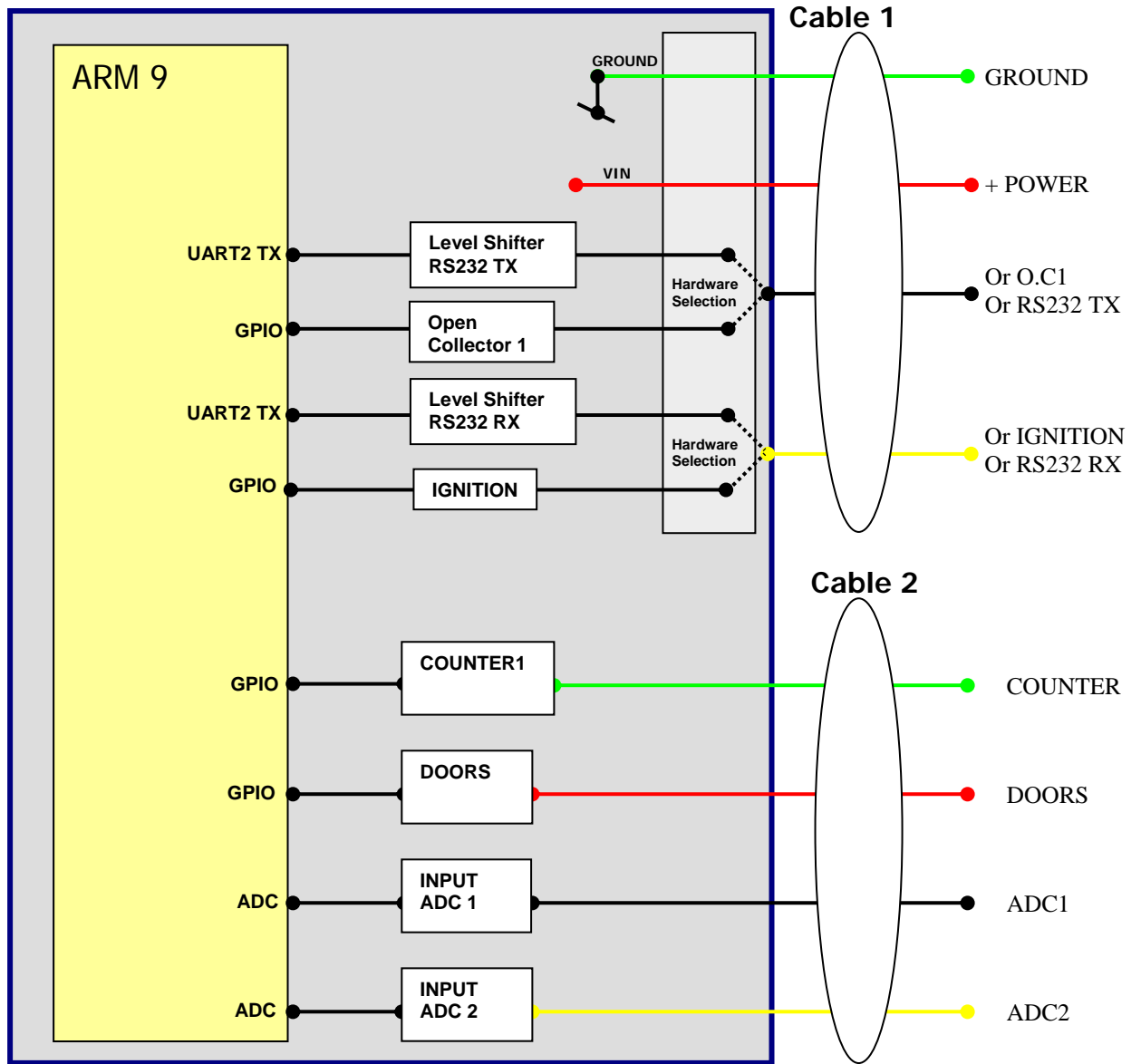
EZdog Block diagram

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CABLE1 and CABLE 2

2.6.1 GPIO Selection



cable connection plug setup options