

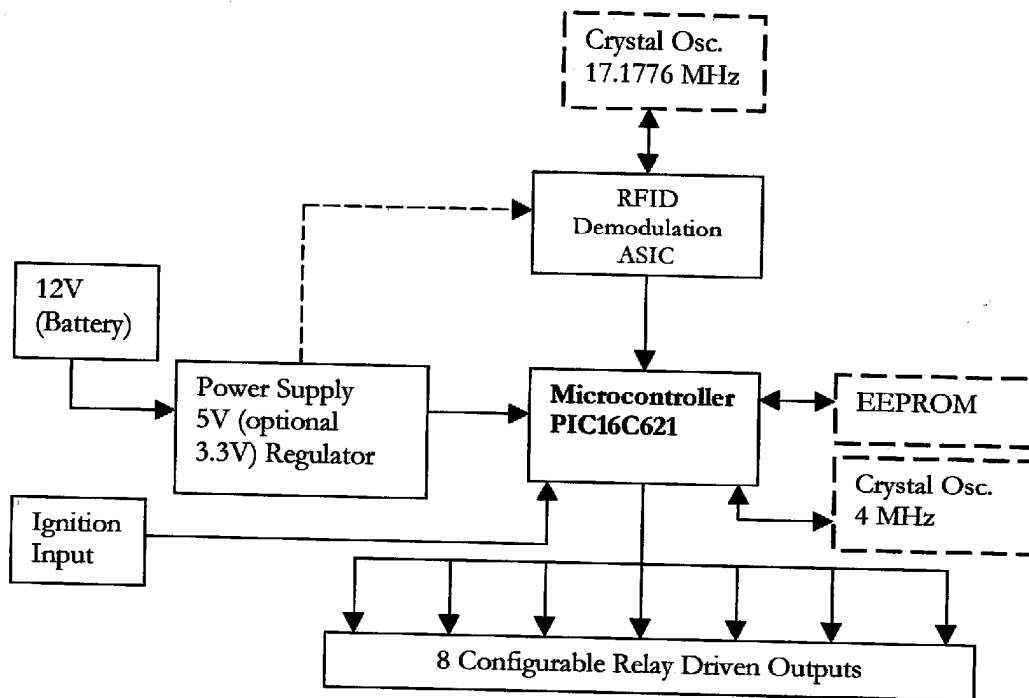
## EXPOSITORY STATEMENT

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## SYSTEM OVERVIEW

**System Description:** AI-100-D-A uses passive RFID technology to provide protection against vehicle theft by immobilizing the vehicle if the authorized driver is not present when the vehicle is started. The system consists of the RFID reader, a loop antenna and customer transponders.

The block diagram below represents the immobiliser control module installed in the vehicle.



## CIRCUIT DESCRIPTION

Power Supply	Main +12V supply from car battery is regulated to 5V using a regulator
Microcontroller	The microcontroller controls all the logic and operations of the immobiliser
Crystal Clocks	A 4Mhz crystal oscillator is used for the microprocessor and a 17.1776Mhz crystal oscillator is used for the ASIC chip
ASIC Chip	Demodulates response from transponder
Relays	30/40 A relays are used to control immobilisation circuits
EEPROM	Used to store transponder ID