



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Freematics OBD-II UART Adapter MK2 SKU:TEL0066



INTRODUCTION

Freematics OBD-II UART Adapter MK2 is the second generation of our popular OBD-II UART Adapter for Arduino. It works as data bridge between a car's OBD-II port and Arduino with easy-to-use Arduino library provided. Besides OBD-II data access, it also integrates 6-axis MEMS sensor module and voltmeter for measuring vehicle battery power. The adapter draws power from OBD-II port and convert it to 5V (up to 2A) for powering itself and attached device (Arduino board, shield or other components). The adapter plugs into the OBD port usually located under the steering column or slightly to the left of it. To check if your vehicle is OBD-II certified, open your hood and find the sticker that looks like this:

VEHICLE EMISSION CONTROL INFORMATION		
A motor co, inc.	ENGINE FAMILY EFN2.8YBT2BA	OBD II CERTIFIED
	DISPLACEMENT 2.8L	
THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1997 MODEL YEAR NEW TLEV PASSENGER CARS.		
REFER TO SERVICE MANUAL FOR ADDITIONAL INFORMATION TUNE-UP CONDITIONS: NORMAL OPERATING ENGINE TEMPERATURE, ACCESSORIES OFF, COOLING FAN OFF, TRANSMISSION IN NEUTRAL.		
EXHAUST EMISSIONS STANDARDS CERTIFICATION IN-USE	STANDARD CATEGORY TLEV TLEV INTERMEDIATE	
SPARK PLUG TYPE NGK BPRE-11 GAP: 1.1mm	CATALYST	EFN2.8YBT2BA 

Note : Vehicles using following vehicle protocols are supported :

CAN 500Kbps/29bit

CAN 250Kbps/29bit

KWP2000 Fast

KWP2000 5Kbps

This version 5V-10W is for cars with both 12V & 24V batteries.

FEATURES

- Supporting CAN bus & KWP2000 protocols
- Built-in MPU-6050 MEMS module (accelerometer, gyroscope & temperature)
- Built-in voltage meter for measuring car battery voltage
- Serial UART data interface for micro-controllers
- Micro USB port for computer/tablet OBD-II access and firmware upgrade
- Compatible and extended ELM327 AT command-set
- Fast (up to 100Hz) read-out of OBD-II PIDs available with vehicle's ECU
- Reading multiple (up to 8) OBD-II PIDs from a single query
- Reading and clearing vehicle diagnostic trouble code (DTC)
- Powering attached devices with DC 5V (up to 2A)
- Arduino library and sketches available

SPECIFICATION

- Output Power : 5V@2A-10W
- Weight : 94g

SHIPPING LIST

- Freematics OBD-II UART Adapter MK2 x1