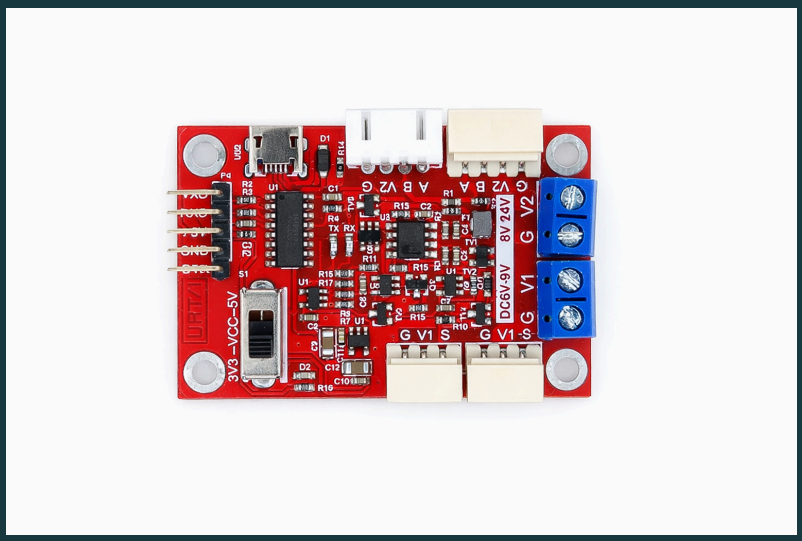
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INDUSTRIAL PRODUCT DATASHEET

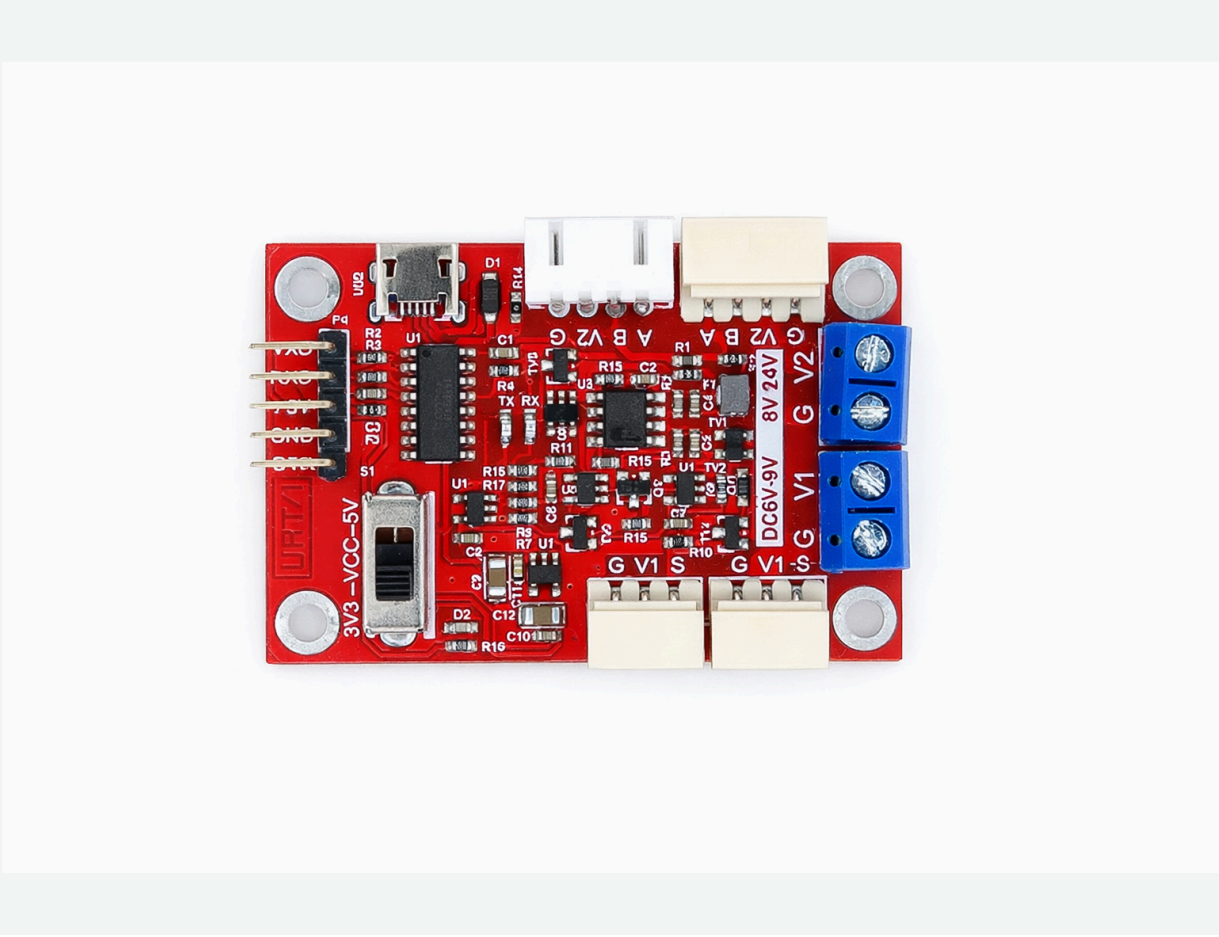
Feetech FE-URT-1 USB to TTL, 485 bus programmer

The FE-URT-1 is a multifunctional serial port signal converter designed to simplify the debugging and operation of FEETECH SMS and SCS series serial servos.

SKU	UPDATED	PRICE
100036057	2026-11-11 09:20:27	$10.00(Excl. VAT)



Overview



The FE-URT-1 is a multifunctional serial port signal converter designed to simplify the debugging and operation of FEETECH SMS and SCS series serial servos. This device seamlessly integrates a USB-to-serial chip with a linear low-dropout voltage regulator circuit, facilitating the conversion of USB signals to 5V or 3.3V serial signal levels, which are compatible with a wide range of servos.

Key Features

01 Full-speed USB device interface compatible with USB V2.0

02 Supports baud rates from 50bps to 1Mbps

03 Switchable 5V and 3.3V UART serial port signal levels

04 Compatible with 32/64-bit Windows operating systems including Windows 10, 8.1, 8, 7, Vista, XP, and various server editions

05 Microsoft digital signature certification for secure operation

06 Allows for control of SMS and SCS series servos through a single serial port

07 Asynchronous half-duplex communication mode with hardware automatic diversion, reducing the need for additional IO control

08 Error-proof connection interface for servo systems to ensure proper connections

09 General-purpose UART interface that can be used for USB-to-serial output or to connect MCU UART for controlling servos

10 Equipped with signal level power indicator (D1), TX (D2), and RX (D3) indicators for easy data status monitoring

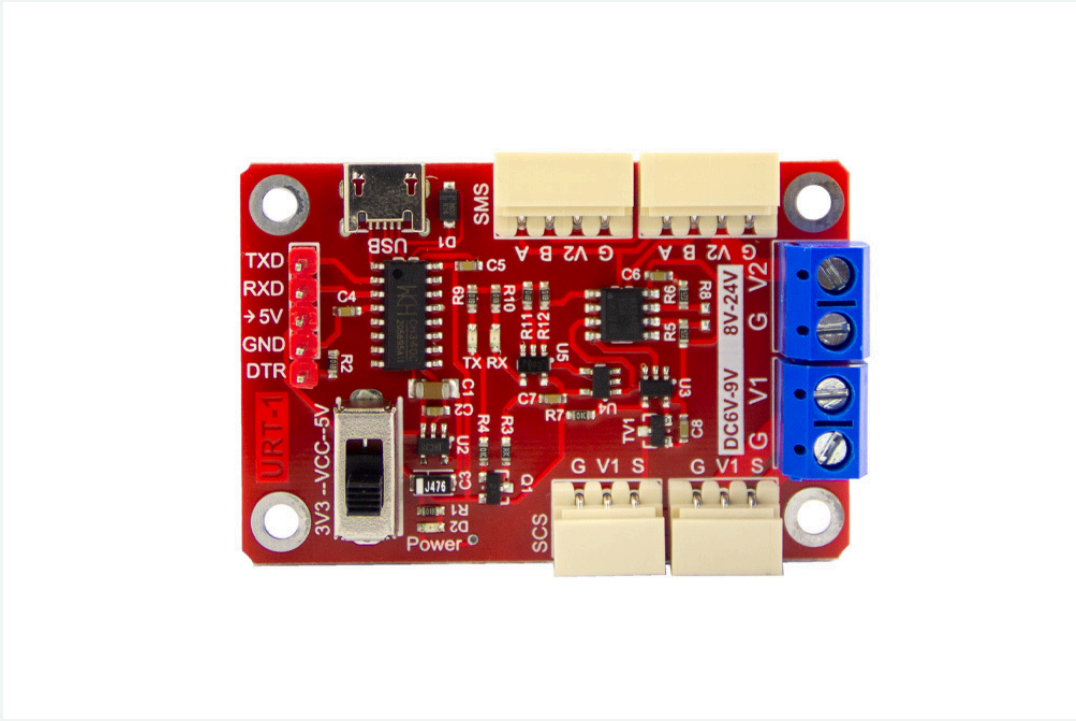
11 5V voltage supplied from USB; external 5V supply can also be used

12 500mA overcurrent protection and overvoltage protection for the USB power supply

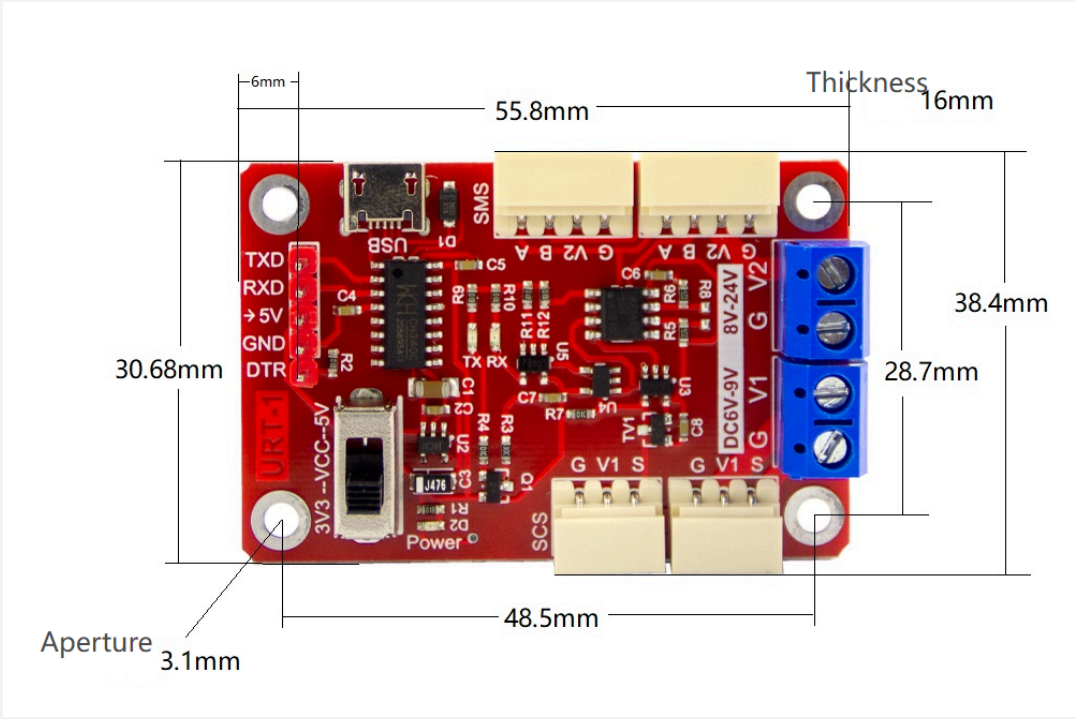
Product Gallery

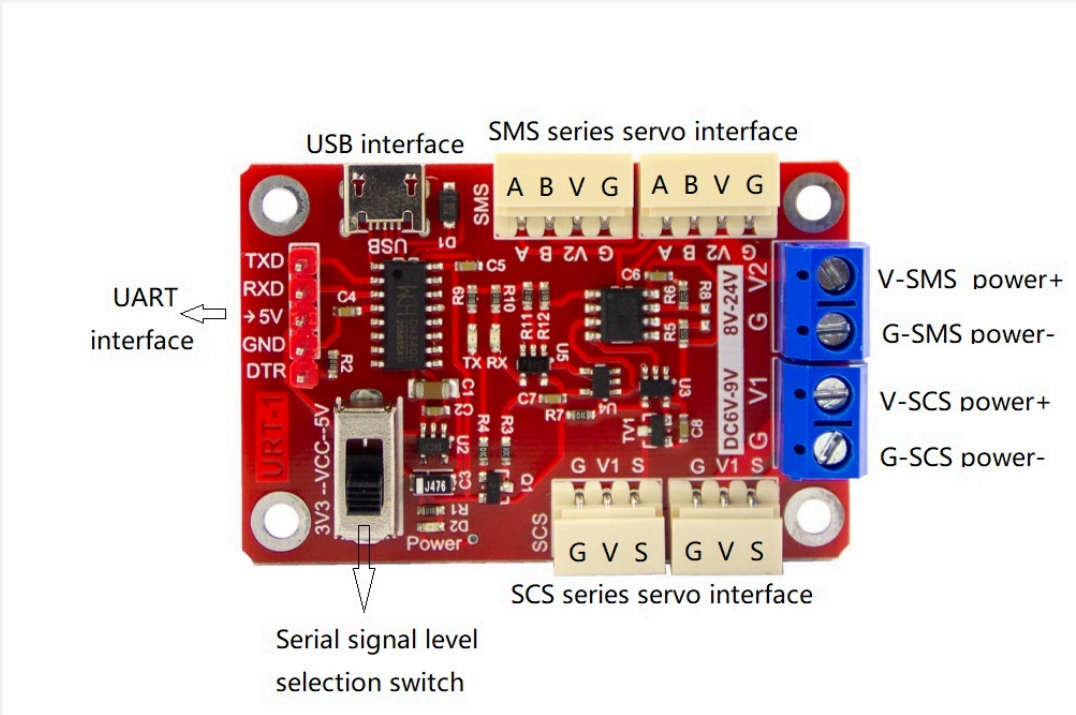


Hardware Overview






6mm
55.8mm
Thickness
16mm
38.4mm
30.68mm
28.7mm
48.5mm
Aperture
3.1mm
SMS
SCS
USB
TXD
RXD
→5V
GND
DTR
URT-1
3V3 --VCC--5V
Power
8V-24V
DC6V-9V
G V1 S
G V2 B A


USB interface
SMS series servo interface
A B V G
A B V G
UART
interface
V-SMS power+
G-SMS power-
V-SCS power+
G-SCS power-
G V S
G V S
SCS series servo interface
Serial signal level
selection switch
SMS
SCS
USB
TXD
RXD
→5V
GND
DTR
URT-1
3V3 --VCC--5V
Power
8V-24V
DC6V-9V

Resource Links

- https://www.seeedstudio.com/Feetech-FE-URT-1-p-6705.html
- Datasheet

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