

ECOTRONS CAN



- USB 2.0
- 1 CAN Bus
- Support Windows XP, Windows 7 and Windows 10
- CAN baud rate can be set anywhere between 5 Kbps and 1 Mbps



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Chapter 1 General Information

Ecotrons CAN provides a single-channel CAN bus interface with a standard USB interface - one device for desktop and laptop.

Ecotrons CAN contains a powerful Cortex-M3 32bit micro-controller from STMicroelectronics with 1 built-in CAN controller. It can work with USB 2.0 in full-speed mode, and handle CAN messages with 11-bit identifier and those with 29-bit identifier. It provides a completely independent CAN channel. A CAN bus transceiver is integrated into the device.

Ecotrons CAN comes in a sealed and solid case, and it can work in very harsh environment. It has a rating of IP67 under IEC standard 60529 (maximum depth of 1 meter up to 30 minutes).

Chapter 2 Technical specifications

Ecotrons CAN has the following features:

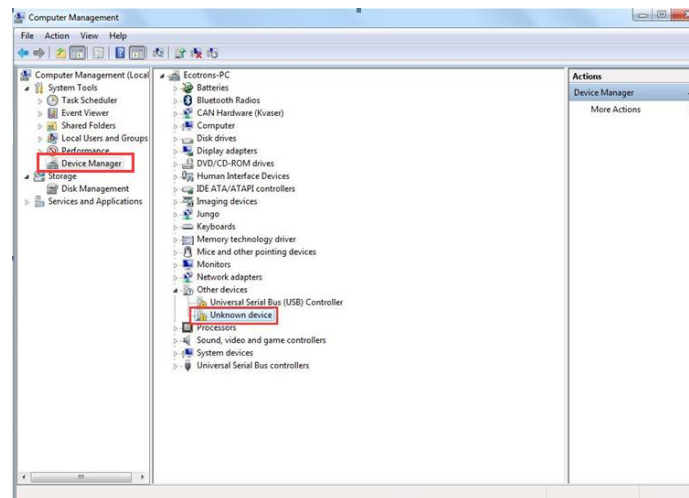
Input voltage range	DC 5V
Input current	Up to 300mA
Communication protocol	CAN 2.0A, CAN 2.0B
CAN channel	1
CAN transceivers	ISO 11898 compliant
Microcontroller	STM32F105, 32bit
USB interface	USB 1.1 and USB 2.0 in full-speed mode
Bit rate of CAN bus	5Kbps - 1Mbps
Electrical isolation	Integrated 1 channel with electrical isolation of the CAN data channel
Isolation voltage	DC 3000V
Software requirements	Windows 8 (64bit, 32bit), Windows 7 (64bit, 32bit), Vista, Windows XP
Temperature range	-40°C to 125°C
Dimensions	4.0 " x 2.6" x 1.0"

Ecotrons CAN has an I/O port (CAN channel). It has **120-ohm terminal resistor integrated internally.**

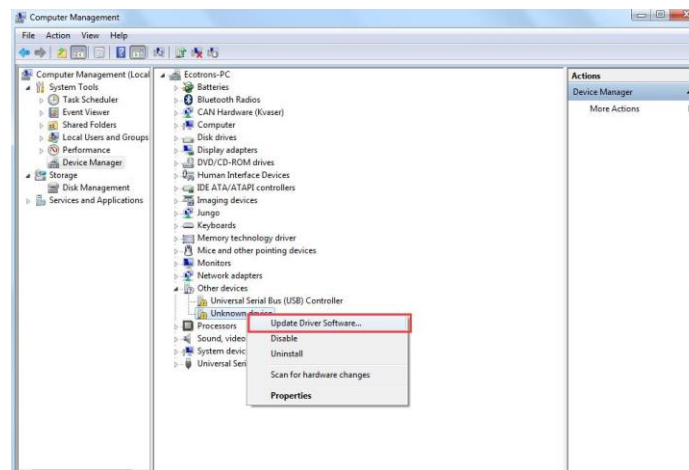
Chapter 3 Driver installation

Ecotrons provide driver installation packages for major operating systems. You can obtain the appropriate driver installation package in two ways: download from our website, <http://www.ecotrons.com>, or find it in the CD that Ecotrons shipped with your product.

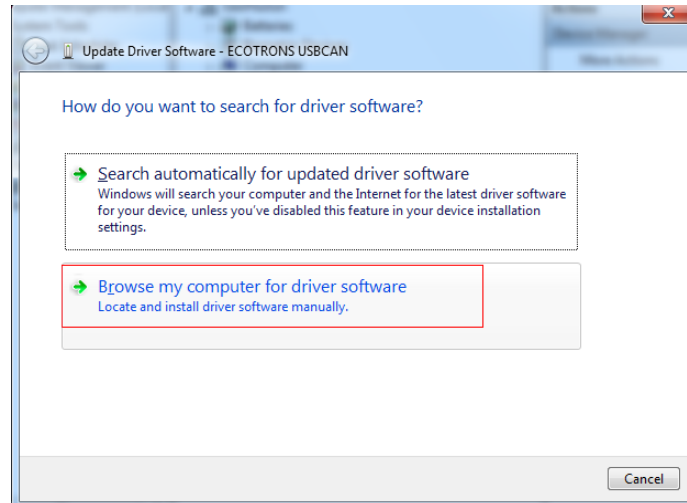
- 1) Connect Ecotrons CAN to the computer.
- 2) Right click **Computer**, select **Manage -> Device Manager**, you can see the Unknown device as below.



- 3) Right click **Unknown device**, select **Update Driver Software**.



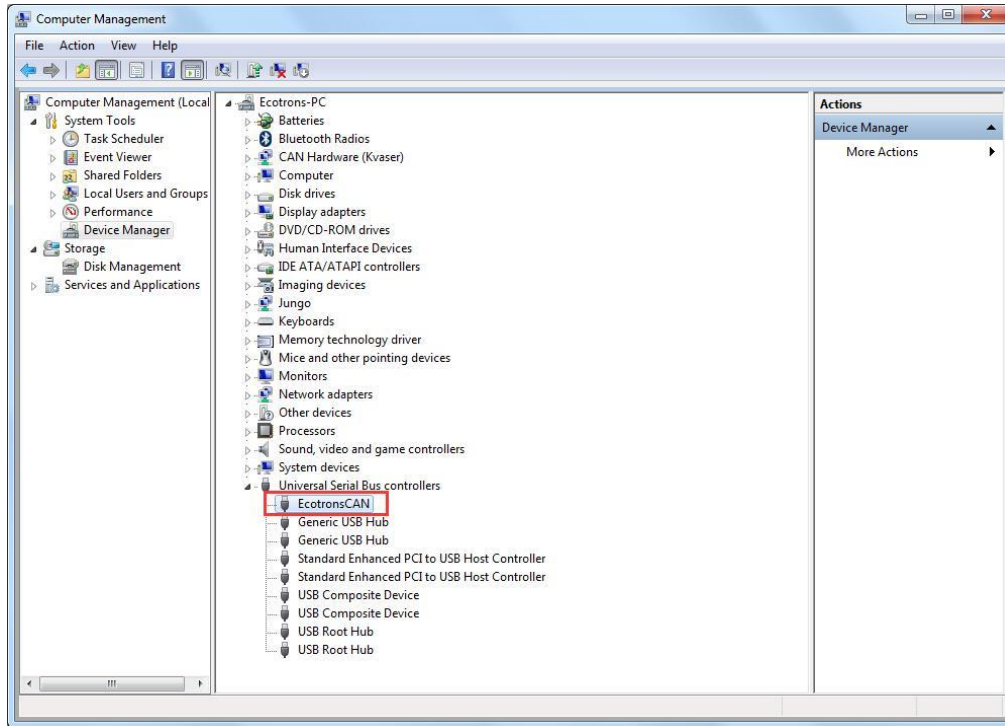
- 4) In the pop-up window as below, select **browse my computer for driver software**.



- 5) Click on **Browse** and select the correct driver file, then click **next** as below. Now the computer is installing the Ecotrons CAN driver.

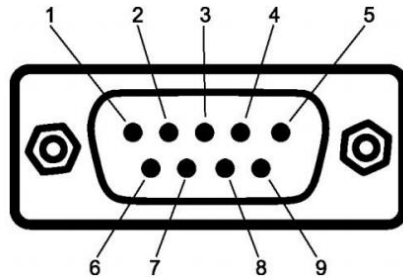


- 6) When the computer starts installing the driver, CAN1 and CAN2 LEDs on Ecotrons CAN will go out. In the **Computer Management** window, you can see the device has been installed correctly as below.



Chapter 4 CAN Channel Transceivers

The standard Ecotrons CAN has two high-speed channels. The two CAN channels have 9-pin male D-SUB connectors. The CAN bus is connected to the D-SUB connector.



D-SUB pin number	Name	Function
1	NC	Not connected
2	L	CAN-L
3	GND	GND
4	NC	Not connected
5	NC	Not connected
6	NC	Not connected
7	H	CAN-H
8	NC	Not connected
9	NC	Not connected