CAN-µVCCM™

Virtual Circuit & Command Module for CAN

- **RS232 to CAN connectivity**
- **ISO11898 Adherent**
- **Fully Configurable via RS232 port and Standard terminal**
- **No external programming (drivers, etc.) required**

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Acacetus is an engineering firm specializing in developing and supporting products for CAN and embedded systems applications.

The meaning of the word "Acacetus" comes from Greek mythology meaning "One who does nothing badly." As such, it epitomizes one of the core values that we embed in our tools. What they do, they do well!

In order to design such tools, we believe that one must have a clear understanding of the goal and a strong competence in the fields required.

Our core team has over 50 fifty years of real world experience developing H/W and S/W embedded systems in fields such as mining, aerospace, nuclear medicine, and a host of other disciplines. Acacetus brings together this significant practical experience in the CAN micro virtual-circuit and command-module (µVCCM) - **CAN µVCCM™**

SOLUTIONS FOR TODAYS CAN PROJECTS

We recognize the fact that today's embedded systems are far more complex than those of just a few years ago and in order for engineers to build correct, reliable, and adaptable systems, reliable tools, with comprehensive support and training availability are key.

CAN µVCCM™

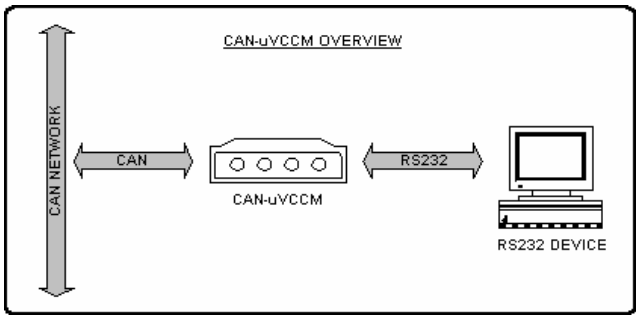
The CAN micro virtual-circuit and command-module is just such a tool. The CAN µVCCM is a highly affordable tool that provides a hardware interface between a CAN 2.0A/B network and a RS232 serial communication port.

The µVCCM receives messages on the CAN bus and converts them for output on the RS232 port. In a similar fashion, data arriving from the RS232 port are reformatted and transmitted on the CAN bus, providing for a bi-directional mode of communication

Because we have been on both sides of the table and understand the true needs of both the developer and the field engineer, we have implemented a unique "dual mode" capability into the CAN µVCCM.

EASILY CONFIGURABLE DEVICE

The µVCCM can be configured to operate in either command mode or virtual circuit mode, providing the user with a choice as to the type of functionality desired.



The µVCCM operating modes and all other configuration parameters are accessed through the RS232 serial port via a standard RS232 terminal. Upon power-up, the µVCCM looks for a specific input sequence on the RS232 COM port. If this sequence is detected in less than one second, the µVCCM enters configuration mode where it then prompts the user to modify configuration parameters. If the sequence is not detected before timeout, the µVCCM loads the saved settings from EEPROM and then begins normal execution.

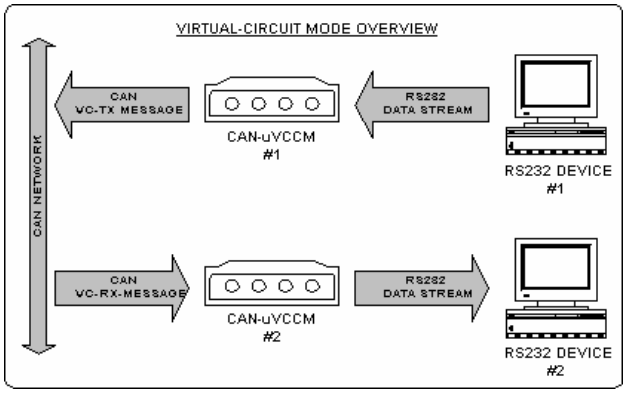
Pulp and Paper, Mining, Education, CAN network development, Medical Electronics, Direct RS232 to RS232 data transfer over CAN, Industrial process control and monitoring, data logging.....

MULTIPLE OPERATING MODES:

The CAN µVCCM is designed to provide simple and reliable operation that allows your technical staff to work in the manner that reduces the need for extensive retraining and takes maximum advantage of their current domain expertise. Accordingly, CAN-µVCCM supports two operating modes that allow you to take advantage of both your legacy systems and new capabilities unique to CAN.

VIRTUAL CIRCUIT MODE:

In virtual circuit mode, the µVCCM establishes a full-duplex, virtual, RS232 circuit between itself and another µVCCM or application device. By providing a virtual RS232 circuit over the CAN network, applications can exchange RS232 stream data in a network-transparent fashion, using existing CAN network cabling.



This means you can use a CAN network to extend your current serial connectivity and yet keep all common interfaces currently used. This significantly reduces the need for programming and changing interfaces when implementing new projects!

SAVES TIME AND MONEY!

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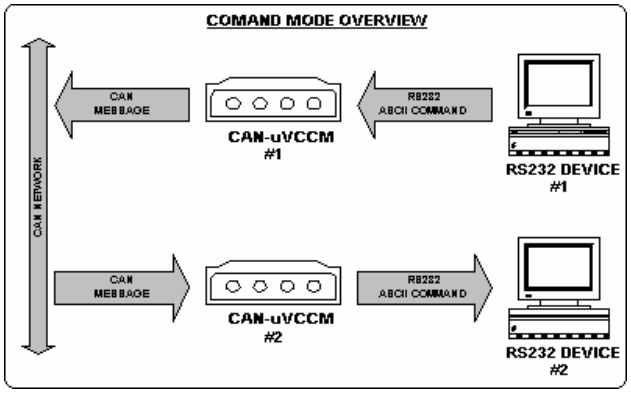
WORKS WITH MULTIPLE OS's

PRODUCT SPECIFICATIONS:

- CAN bus speed up to 1 mBit/Sec
- CAN Bus Galvanically isolated
- 1 RS232 port up to 57600 Bit/Sec
- 4 CAN receive filters (in CM mode)
- TX and RX Message Buffering
- Timed transmit configurable (in VC mode)
- CAN Bus Slew-Rate User Adjustable
- All parameters are configurable through the RS232 port
- Configuration via simple ASCII terminal interface (ie: HyperTerminal, etc.)
- Powered by external 7+Volt DC transformer (7-60 volts)

COMMAND MODE:

In the command mode, the µVCCM is capable of sending and receiving arbitrary CAN messages through the RS232 serial port, providing a complete RS232-CAN interface. This mode also supports message filtering to limit the range of CAN identifiers that will be received.



APPLICATIONS:

1. Provide RS232 to CAN interface for legacy systems.
2. Implement virtual serial links to target systems over the CAN network.
3. Simple debugging tool for working with CAN networks.
4. Provides a means of transparent firmware download over the CAN network.

ONE TOOL FOR MANY JOBS!

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