

Ipetronik : Automotive data loggers transmit data to PC

By Henri Arnold

Courtesy of [EE Times Europe](#)
(12/01/2008 10:37 H EST)

IPETRONIK is providing convenient online transmission of measurement data from the IPETRONIK data logger (M-LOG, S-LOG) to a PC with XCP Service. With XCP Service the logger behaves like a control unit in the vehicle and has A2L files written to it like a control unit, therefore emphasizing its central gateway functionality.



Configuration of the logger is modular using various interfaces and external components. All of the measurement data that is acquired and the freely calculated variables can be easily put together and transmitted to higher-order PC software via Ethernet. The data that is important to the user can therefore be sent to popular application programs such as INCA from ETAS (BOSCH), CANape from Vector-Informatik and CALdesk from dSpace easily and in real time using the standardized XCP protocol.

The XCP protocol (Universal Measurement and Calibration Protocol) is the successor to the established CAN Calibration Protocol (CCP) and has been standardized by ASAM (Association for the Standardization of Automation and Measuring Systems). The data is transferred using so-called DAQ lists. Special manufacturer-specific drivers are no longer needed because any software with XCP capability can receive and process the measurement data.

All of the data and protocols can be conveniently managed and run; the easy-to-use configuration user interface from IPETRONIK that will run on any PC with an up-to-date Windows operating system is available to the user. Communication can take place locally via cable, via WLAN or even worldwide via GSM/UMTS and the Internet. Online transmission takes place independently of the type of data storage that has been chosen, i.e. data can be stored in the data logger and/or transferred online depending on the configuration. The user defines how the data that is measured in the system undergoes further processing using the measurement configuration facility.

IPETRONIK software versions IPEconf 4.17 and TESTdrive 3.17 or higher are required for configuration and data acquisition with the logger. The external measuring application must be able to acquire data via XCPonEthernet. For example, this is supported by Vector CANape version 6.5 or above and ETAS INCA version 6.1 or above. XCP Service can be used with any

IPETRONIK data logger that fulfils the above-mentioned requirements at no additional cost. The software versions of IPEconf and TESTdrive may need to be updated. The latest versions are available for downloading via the IPETRONIK FTP server by any registered user.

“With XCP Service the user can view measurement data online, configure his data acquisition with LOG2PC and start and stop measuring remotely via the PC. The interesting thing about this is that the customer does not have to spend time searching for a suitable A2L file for a vehicle somewhere on the network, but simply reads it out of the data logger of the vehicle on which he wishes to work. The whole thing works via Ethernet if the data logger is connected to a PC, or via our optional COMgate communication gateway. This also makes access via the Intranet or Internet possible, regardless of the location of the vehicle”, explains Andreas Geh, Sales and Marketing Manager at IPETRONIK. “The great thing about XCP Service is that our customers can use these additional functions free of charge. All they have to do is familiarize with the application and possibly update their IPETRONIK software”.

About IPETRONIK

Since its founding in 1983, IPETRONIK GmbH & Co.KG has had a significant technological impact in the automotive mobile measurement field. Today Ipetronik is one of the world's leading companies in this sector. For years, car manufacturers have relied on the high dependability, precision, and availability of IPETRONIK products and services. The comprehensive portfolio of measurement modules, data loggers, sensors and software are not matched by other companies in this field. IPETRONIK is known for high precision modular measuring equipment, and expertise in analog measurement technology. This expertise includes in depth knowledge of automotive data busses, automotive data bus communication protocols, and automotive control units. IPETRONIK is the technology partner of the automotive industry, through continuous expansion of the Consulting/Engineering division for vehicle test equipment. This includes general testing and on, as well as, off road test runs, with an emphasis on vehicle air-conditioning and thermal management. At the Baden-Baden headquarters, about 100 employees are dedicated to develop innovative solutions that are produced in Germany. IPETRONIK backs up its claim of global sales and support with local customer care through its own subsidiaries and branch offices in France, Sweden and the USA, and with a growing, worldwide distribution network.

IPETRONIK GmbH & Co. KG

Jägerweg 1

76532 Baden-Baden

Andreas Geh

Tel.: +49-7221-9922-270

Fax: +49-7221-9922-100

Email: andreas.geh@ipetronik.com

Internet: www.ipetronik.com

北京风丘科技有限公司

地址: 北京市海淀区上地信息路 1 号
国际创业园 2 号楼 2201 室

邮编: 100085

电话: 010- 82894993 82894983

传真: 010- 82894696

网址: www.windhill.com.cn

邮件: info@windhill.com.cn

Note: *The above text is the public part of the press release obtained from the manufacturer (with minor modifications). EETimes Europe cannot be held responsible for the claims and statements made by the manufacturer. The text is intended as a supplement to the new product presentations in EETimes Europe magazine.*
