

# VCI Part X



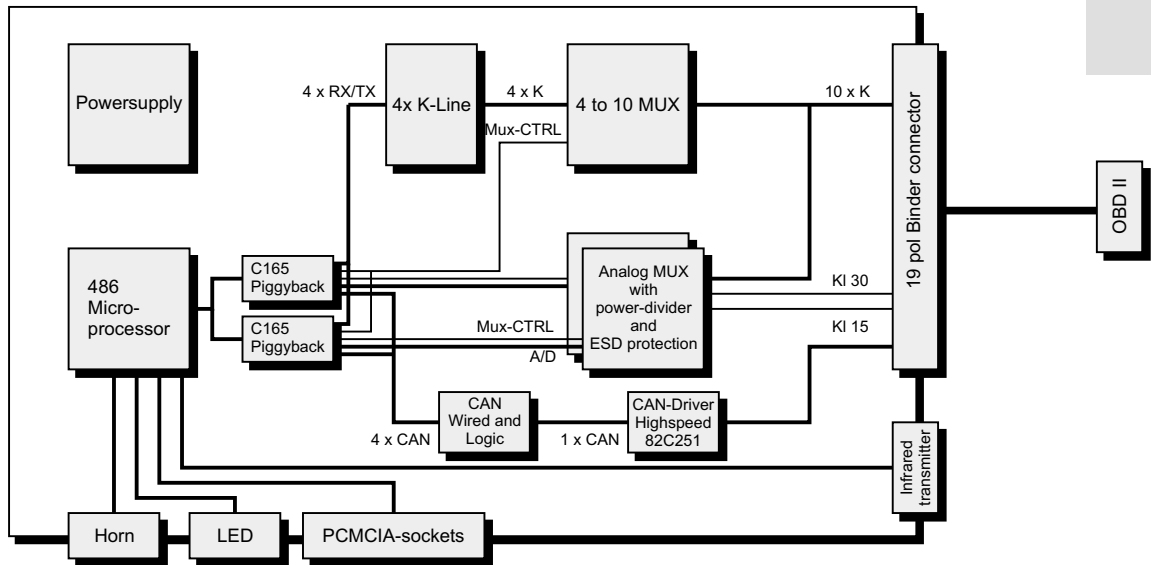
## HIGHLIGHTS

- mobile interfacing between car and test PC by the usage of wireless communication technology
- on-board data (pre-)processing
- high performance data monitoring for K-Line and CAN
- program download via RS232 and bootloader options for firmware update
- application development under Windows NT for diagnosis and real-time requirements

## FEATURES

- rugged housing for car protection
- easy to handle mechanical mounting
- high performance embedded microprocessor designed for rough automotive requirements
- supports CAN 2.0B active and K-Line
- easy to handle memory expansions by the usage of PC card technology
- additional infra-red link to test PC for login and status information

## PERFORMANCES



## Specifications

### General Characteristics

- trans. rate CAN: up to 1 MBit/s
- trans. rate RS232: up to 115.2 kBaud
- trans. K-Line: up to 192 kBaud
- dimension: 220 x 80 x 45 mm
- housing: aluminium
- protection class: IP50
- power supply: 8 .. 32 VDC external
- temperature range: 0 to +70°C
- memory:
  - embedded PC: 8MB RAM (16 MB optional)  
4MB Flash (16MB optional)  
expansion possible by PCMCIA card (bootable)

C165: 2MB Flash  
1MB RAM

- processor types: 2 x C165@18.432 MHz  
1 x embedded PC ELAN  
SC400@33/66/100 MHz

### Connectors

- diagnostic con.: 19pin AirLB connector
- service link con.: 13pin AirLB connector
- PCMCIA: 2 x type I/II, internal, no hot plugging, 5V only

### diagnostic interface towards car

- 10 x K-Line ISO9141, mux. to 4 indep. UART channels
- voltage measurement possible
- 1 x CAN ISO11898, connected to 4 x 82527

### servicelink interface

- 1 x RS232, optional IrDA adapter compatible to standard interfaces

### possible host interfaces

- RS232 connection via service link
- wireless RadioLAN via PCMCIA LANcard

## General information

- hardware requirements:
  - external power supply
  - RS232 interface for downloading
  - wireless PC card and accesspoint
- software requirements:
  - operating system with TCP/IP protocol stack
  - compiler for software development
- knowledge requirements for design of own application
  - experience in programming PCs and microcontrollers (assembly language or C)
  - network protocols

## Product includes

- Part X
- sample program to get the Part X started

## Order number

- IME 3109203 Part X (incl. radiocard, 2x Piggyback and IR adapter)
- IME 3109204 Part X OBD connector cable