

# EDICwlan

## Sturdy VCI for Manufacturing and Service

Diagnostic interfaces from Softing are based on the tried and tested EDIC® hardware and software platform. Thanks to its sturdy design, EDICwlan is particularly suited for use in harsh environmental conditions as are often found in the manufacturing and service environment.



### Mobility

Wireless communication makes remote access of bus and diagnostic data as well as of test units possible directly from the specialist's workstation. Service engineers can move freely in the repair shop which is of great benefit in large halls when servicing trucks. Thanks to the buffering of the supply voltage in the integrated power pack, EDICwlan can be kept in the vehicle for a long cycle during manufacture.

### Flexibility

EDICwlan has an expansion interface with which customer-specific requirements can be realized. The communication protocols UDS (ISO 14229) and KWP 2000 (ISO 14230, ISO 15765) as well as all Volkswagen-specific protocols are supported via the standardized D-PDU API (ISO 22900-2). With a software layer based on the D-PDU API, the VCI can also be used as a PassThru device in accordance with SAE J2534. Together with the Diagnostic Tool Set DTS from Softing, a total solution in accordance with the MCD-3D standard ISO 22900-3 and ODX technology can be realized.

### Sturdy Construction

With the solid aluminum housing and industry-proof connectors, protection class IP54 is attained and operation in extremely rough environments guaranteed. The shock-absorbing plastic protective caps prevent the vehicle from being damaged.

### Tried and Tested Design

EDICwlan is based on the tried and tested and widely used EDIC® architecture with multi-link software. A large number of systems installed over many years ensure stable system behavior.

### AREAS OF APPLICATION

- Functional ECU tests and communication tests
- Mobile programming systems and diagnostic testers
- Programming and coding of vehicle systems
- Their setup in manufacturing using an ECU

### ADVANTAGES

- 3 independent channels: 2 x CAN and 1 x ISO 9141
- Data preprocessing and protocol handling in the interface
- Accumulator-driven power management
- Aluminum housing with impact protection, class IP54

## Technical Data

Format	Approx. 126 x 214 x 47 mm, weight approx. 1000 g (incl. power pack)
Power supply	8 ... 32 V via vehicle diagnostic connector
Current consumption	Approx. 400 mA at 12 V
Microcontroller	16-bit microcontroller XC161CJ, 40 MHz
PC interface	USB V2.0 Full Speed, 12 Mbit/s, sturdy USB cable with ODU round connector WLAN IEEE 802.11 b/g, safety standards WEP and WPA
Vehicle interface	Sturdy cable with ODU round connector to the VCI and OBD connector All signals galvanically isolated from the PC interface
CAN	2 CAN channels in acc. with ISO 11898 and CAN 2.0B: Channel 1: CAN high-speed in acc. with ISO11898 / CAN low-speed (TJA1053 or compatible), switchable Channel 2: CAN high-speed in acc. with ISO11898, can be used with alternative vehicle cable
ISO 9141-2	K- and L-line for 12V and 24V vehicle systems; max. 125 kBaud (depending on the protocol and bus physics)
Digital inputs	Ignition (KL 15)
Temperature range	Operation: 0 ... +50 °C, storage: -20 ... +80 °C
Protection class	Sturdy aluminum housing with impact protection; dust and splash protection in acc. with IP54
Vehicle interfering pulses	In acc. with ISO 7637; pulses 1 - 5
EMC conformity	Noise emission: EN 55022, EN 55011 Class A and EN 61000-6-4 (industrial environment) Interference immunity: EN 61000-6-2 (industrial environment) FCC part 15 subpart B limit A (industrial environment)
Radio homologation	EU states, Switzerland, Liechtenstein, Norway, Iceland, other countries on request
Software interface	D-PDU API from Softing
System requirements	Operating system depends on the operating software used

## Order Numbers

EDICwlan	EDIC WLAN/USB vehicle interface in sturdy design for ISO 9141-2 and CAN 2.0B including D-PDU API software on data carrier EDICwlan/AKKU: power pack for interruption-free operation during vehicle change EDICwlan/USBK: sturdy USB cable with special connector for EDICwlan, cable length approx. 5m EDICwlan/FZGK: sturdy vehicle cable to CARB connector (SAE J1962 / ISO 15031-3), cable length ca. 0.8 m Storage case
EDICwlan-PTD	EDIC WLAN/USB vehicle interface in sturdy design for ISO 9141-2 und CAN 2.0B including PassThru software interface on data carrier EDICwlan/AKKU: power pack for interruption-free operation during vehicle change EDICwlan/USBK: sturdy USB cable with special connector for EDICwlan, cable length approx. 5m EDICwlan/FZGK: sturdy vehicle cable to CARB connector (SAE J1962 / ISO 15031-3), cable length ca. 0.8 m Storage case

## Supplementary Products and Services

Customized vehicle cables on request