

# VX0312

## Network Interface for Ethernet/BroadR-Reach and CAN with USB Interface

### What is VX0312?

The VX0312 is a Ethernet/BroadR-Reach USB adapter with integrated CAN-FD-connection developed to meet automotive requirements.

XCP on Ethernet or XCP on BroadR-Reach devices can quickly and reliably be connected via the VX0312 to a computer having a measurement and calibration software installed.

### Functions

- > In CANape, XCP on Ethernet or XCP on BroadR-Reach devices can be used without changes to the Windows network or firewall settings
- > Precise time-synchronization between CAN and Ethernet messages
- > XL-Driver support for the integration in third-party products for operation without Windows network and Firewall setting
- > Windows network driver (NDIS) for operating the Ethernet/BroadR-Reach interface as a regular network adapter for tools without XL-Driver support
- > DoIP Activation Line as an alternative assignment on the CAN connector

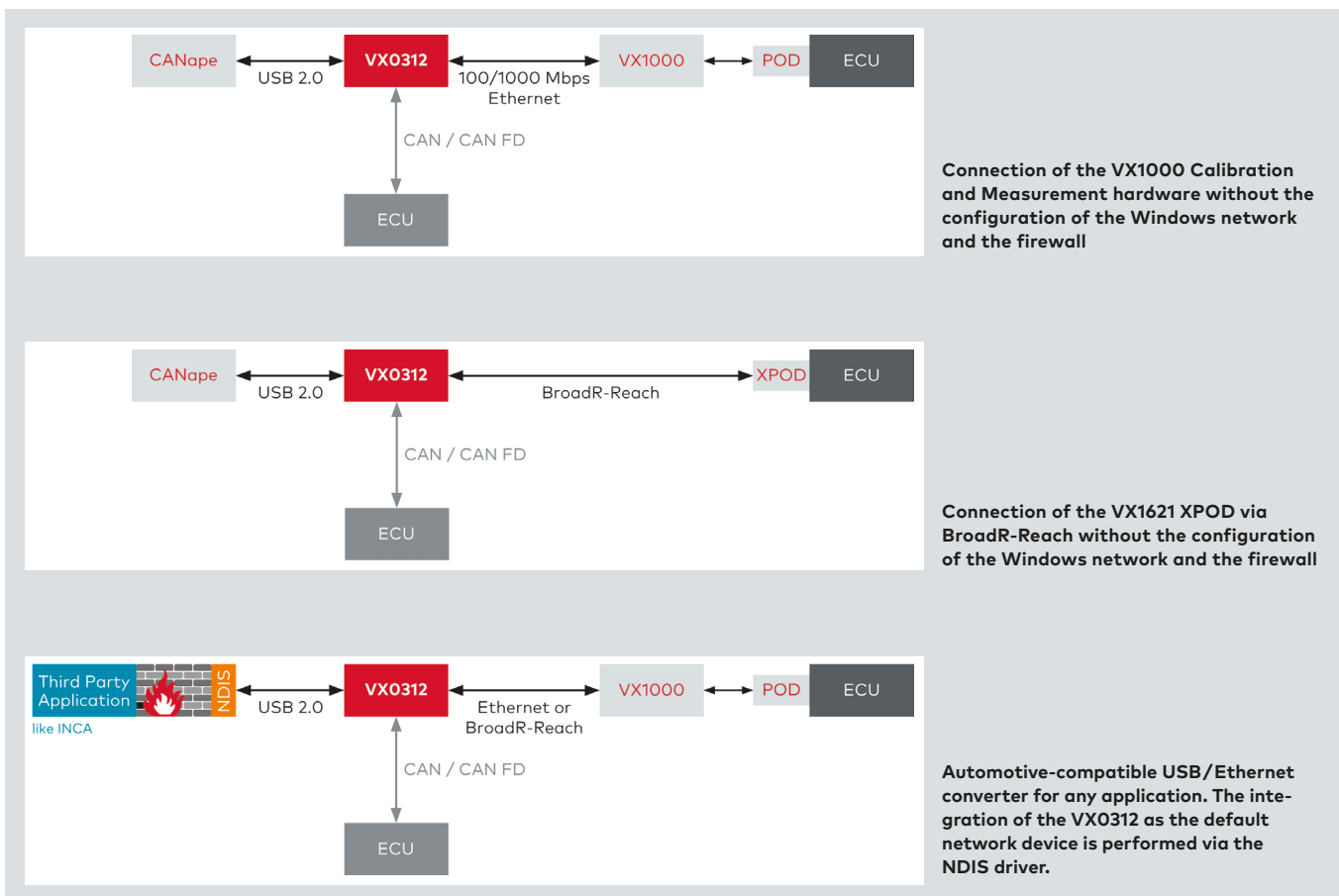
### Overview of Advantages

- > No Windows firewall or network configuration is necessary when used as Ethernet/BroadR-Reach interface with the measurement and calibration tool CANape
- > Standard Ethernet (100 Mbit/1000 Mbit) and BroadR-Reach (100 Mbit) via just one RJ45 connection (auto detection)
- > Additional CAN high-speed channel (ISO CAN FD capable)
- > Windows network driver (NDIS) enables use as a standard network adapter
- > Open interface for third-party tools with the XL-Driver-Library (CAN and Ethernet)
- > Host connection via USB 2.0 Hi-Speed (20 MB/s)
- > Power supply via USB
- > High flexibility by FPGA hardware architecture
- > Rugged housing, simple power supply and wide temperature range makes it ideal for the automotive environment or other industrial applications



Automotive-rated USB Adapter for Ethernet/BroadR-Reach with CAN-FD-connection

	Ethernet	CAN
Channels	1	1
Transceiver	BCM54810	NXP TJA1051
Physical Layer	IEEE802.3 (100BASE-TX and 1000BASE-T), BroadR-Reach (100BASE-T1)	CAN high-speed (ISO CAN FD capable) DoIP Activation Line
Connectors	1 x RJ45	1 x Lemo connector
Time stamp	Accuracy (within one device): 1 µs Accuracy with software synchronization: typ. 50 µs	
Baudrates	100 Mbit/s (BroadR-Reach) 100 Mbit/s, 1000 Mbit/s (IEEE802.3)	up to 2 Mbit/s (ISO CAN FD up to 8 Mbit/s)
Operating system	Windows 7/8.1 (32 and 64 bit), Windows 10 (64 bit)	
PC interface	USB 2.0 Hi-Speed, no external power supply (bus-powered)	
Driver libraries	XL-Driver-Library for CAN and Ethernet Windows driver for Ethernet (NDIS)	
Temperature range	Operating: -40 ... +65 °C, Storage: -40 ... +85 °C	
Dimensions (LxWxH)	86 mm x 57 mm x 26 mm	
Weight	120 g	
Housing	Rugged aluminum housing	



More information: [www.vector.com/VX0312](http://www.vector.com/VX0312)