What is VX0312?
The VX0312 is an 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

<table>
<thead>
<tr>
<th>Channel</th>
<th>Transceiver</th>
<th>Physical Layer</th>
<th>Connectors</th>
<th>Time stamp</th>
<th>Baudrates</th>
<th>Operating system</th>
<th>PC interface</th>
<th>Driver libraries</th>
<th>Temperature range</th>
<th>Dimensions (LxWxH)</th>
<th>Weight</th>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BCM54810</td>
<td>IEEE802.3 (100BASE-TX and 1000BASE-T), BroadR-Reach</td>
<td>1 x RJ45</td>
<td>Accuracy (within one device): 1 µs Accuracy with software synchronization: typ. 50 µs</td>
<td>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)</td>
<td>Windows 7/8.1 (32 and 64 bit), Windows 10 (64 bit)</td>
<td>USB 2.0 Hi-Speed, no external power supply (bus-powered)</td>
<td>XL-Driver-Library for CAN and Ethernet Windows driver for Ethernet (NDIS)</td>
<td>Operating: −40 ... +65 °C, Storage: −40 ... +85 °C</td>
<td>86 mm x 57 mm x 26 mm</td>
<td>120 g</td>
<td>Rugged aluminum housing</td>
</tr>
</tbody>
</table>

**Connection of the VX1000 Calibration and Measurement hardware without the configuration of the Windows network and the firewall**

**Connection of the VX1621 XPOD via BroadR-Reach without the configuration of the Windows network and the firewall**

**Automotive-compatible USB/Ethernet converter for any application. The integration of the VX0312 as the default network device is performed via the NDIS driver.**

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