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VECTOR >

VECTOR LTE-V2X Interface

SAFETY INFORMATION

Important Notes

- **Caution!**
  - Do not operate the device without antennas! To avoid physical damage to the device, please attach the provided antennas to the device before operation!
- **Caution!**
  - The interface is exclusively designed for use by skilled personnel as its operation may result in serious personal injuries and damage to property. Therefore, only those persons may operate the interface who (i) have understood the possible effects of the actions which may be caused by the interface; (ii) are specifically trained in the handling with the interface, bus systems and the system intended to be influenced; and (iii) have sufficient experience in using the interface safely.

Installation and Startup

Step-by-Step Procedure

1. Connect the device to the PC via Ethernet (either via a USB-to-Ethernet adapter or to your local network.
2. Connect the antennas and the GNSS receiver to the device.
3. Power up the device by supplying external voltage (e.g. with an appropriate cable offered by Vector) and press the power button.
4. Ensure the first LED is in a permanent green state (operating system has booted successfully) and the second LED is blinking green (valid GNSS fix is available). A valid GNSS fix is mandatory for device operation. Without a valid GNSS fix, the device cannot transmit or receive messages.
5. Open CANoes/CANalyzers Network Hardware Config Dialogue
   - **Ath1**: Select "C-V2X" as technology.
   - **Setup**: Open "Channel Mapping" and "Search Devices". The device is found. Map the channel to "Ath1" and leave with "Ok".
   - Adapt the channel's default radio parameters, radio channel, bandwidth, transmission power and data rate to your needs and leave the dialogue with "Ok".
6. CANoe/CANalyzer and the device are now ready for operation.

Connectors

Front side

Figure 1: Connectors on the front side

- **Ethernet (RJ45)**
  - Connect your PC and the cube: tap to use the device with measurement applications (CANoe/CANalyzer).
- **LED (4x)**
  - LED1: Permanent green state if the operating system has successfully booted.
  - LED2: Green blinking if GNSS fix is available.
  - LED3: Unassigned.
  - LED4: Unassigned.
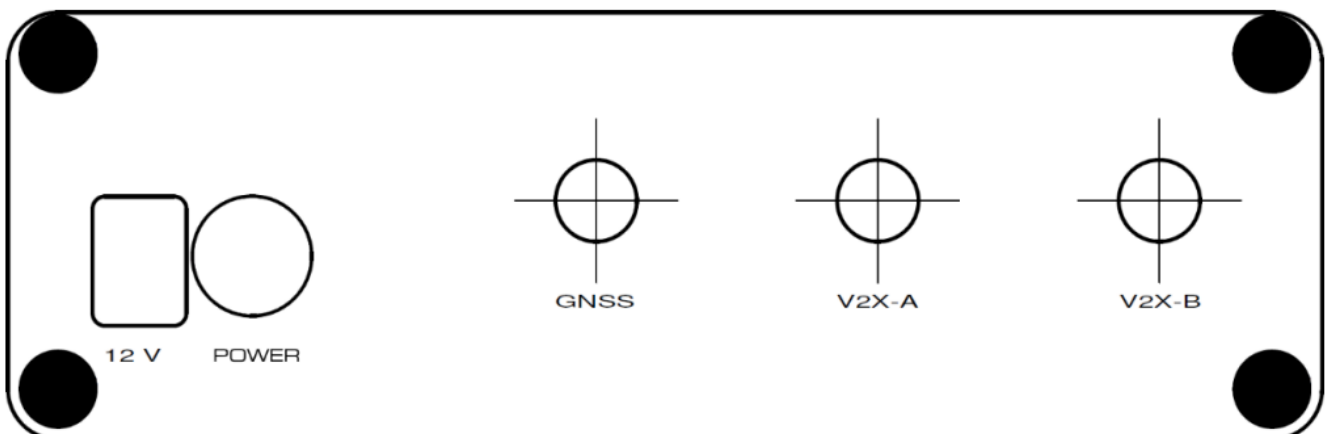
Back side

Figure 2: Connectors on the back side

- **12V**
  - Connector for external power supply.

- **POWER**
  - Press button to power up the device.
- **GNSS**
  - This channel can be used to receive GNSS time and position.
- **V2X-A / V2X-B**
  - The cube:tap has one channel with two RF connectors for diversity

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FAQs

- **Q: Can I operate the Cube: Tap without attaching antennas?**
  - A: No, operating the device without antennas can lead to physical damage. Always attach the provided antennas before operation.
- **Q: Who should operate the cube tap interface?**
  - A: The interface is designed for use by skilled personnel who understand its operations and have experience in handling such devices safely.

Documents / Resources

[VECTOR LTE-V2X Interface](#) [[pdf](#)] User Guide

LTE-V2X Interface, LTE-V2X, Interface

References

- [User Manual](#)

🏷 Interface, LTE-V2X, LTE-V2X Interface,

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