

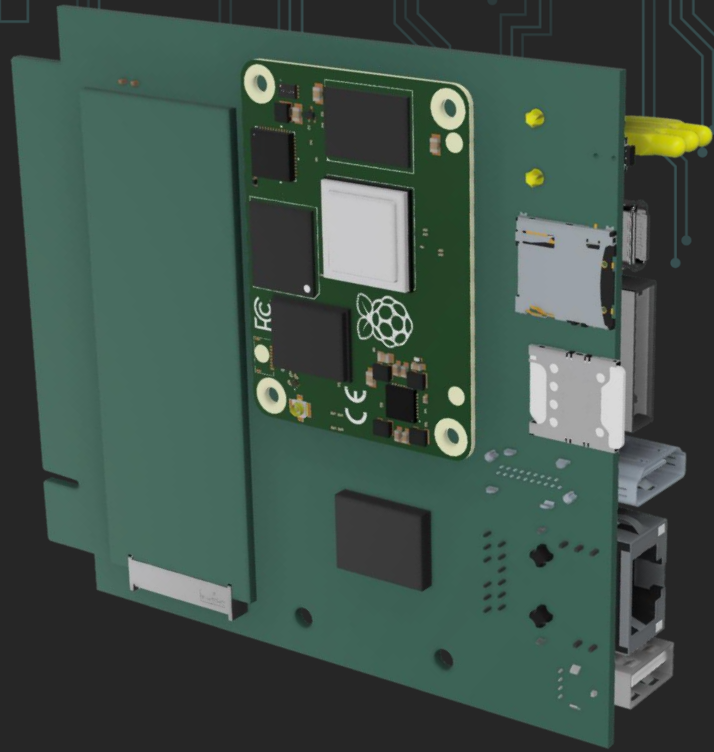
ZERO

V2X Node

V2X connectivity research toolkit

ULTIMATE V2X PROTOTYPING PLATFORM





V2X Node

RASPBERRY PI Compute Module 4

ULTIMATE V2X PROTOTYPING PLATFORM

ROLLING WIRELESS V2X MODEM [3GPP R15]

RASPBERRY PI CM4 SOCKET

M.2 SLOT [B-Key] for 5G/WiFi/... CONNECTIVITY

RASPBERRY PI HAT CONNECTOR

ADAFRUIT FEATHER CONNECTOR

1X CAN FD [AUTOMOTIVE-GRADE CONNECTOR]

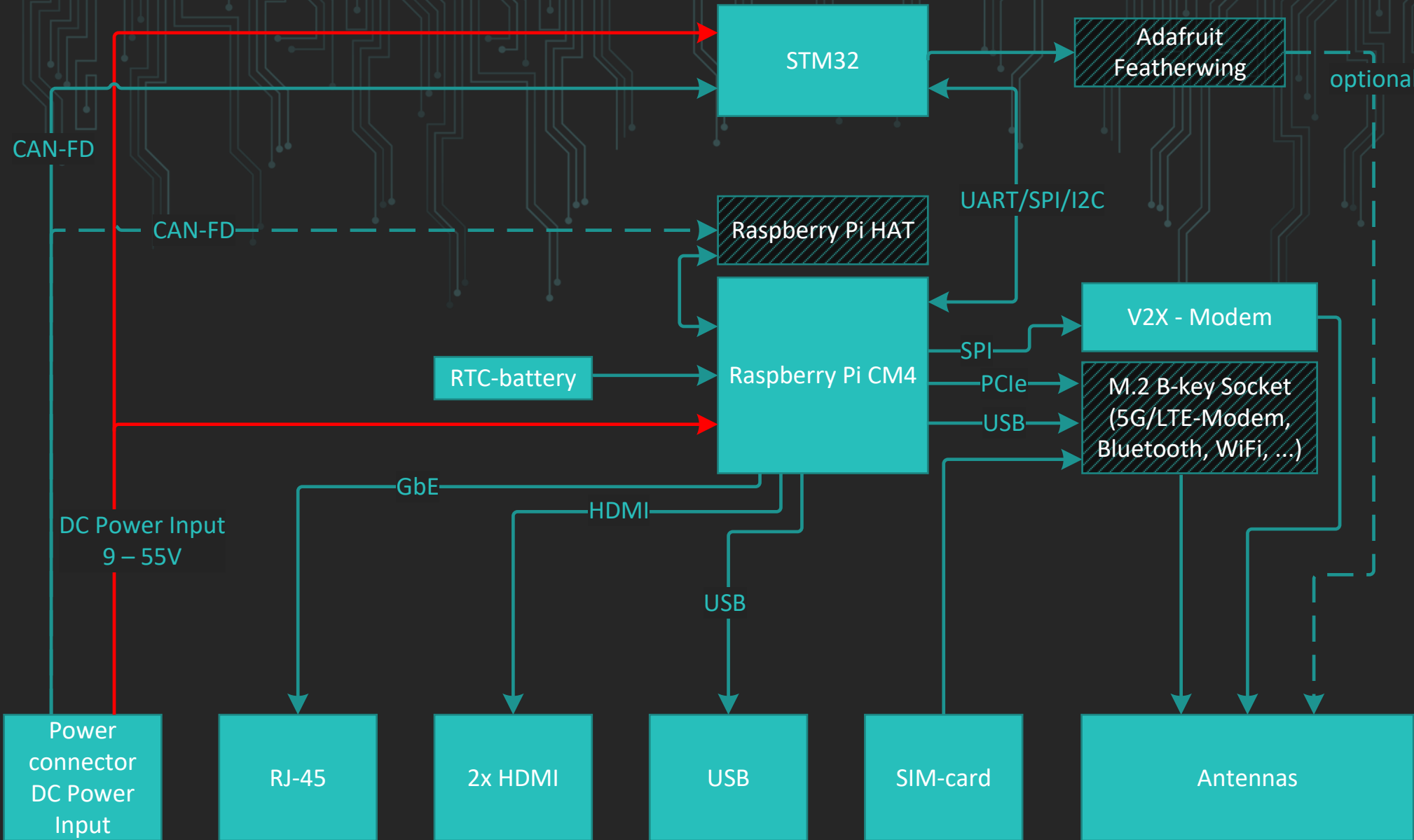
1X GIGABIT ETHERNET

2x HDMI OUT

WIDE RANGE INPUT VOLTAGE (9-55V)



AMPS V2X Node



V2X Node Datasheet

<p>Interfaces (Front)</p>	<ul style="list-style-type: none"> ▪ 1x CAN-FD / Power (combined Connector) ▪ 2x HDMI Out (full size) ▪ 1x USB 2.0 (to CM4) ▪ 1x USB-C (to STM32) ▪ 1x RJ-45 (1000Base-T)
<p>on-board Connectors</p>	<ul style="list-style-type: none"> ▪ M.2 (B-Key) ▪ Adafruit Featherwing ▪ Raspberry Pi HAT ▪ Flex-Pins (STM32)
<p>V2X</p>	<ul style="list-style-type: none"> ▪ Rolling Wireless RX113A V2X module ▪ single-channel V2X modem with HW encryption ▪ C-V2X based on 3GPP Release 15 in the 5,9GHz band ▪ DSRC 802.11p (not supported in software, yet) ▪ Software: Vanetza Open Source V2X stack
<p>Dimension</p>	<ul style="list-style-type: none"> ▪ 124 x 105 x 44 mm (w x d x h)
<p>Weight</p>	<ul style="list-style-type: none"> ▪ 484g
<p>Electrical Specification</p>	<ul style="list-style-type: none"> ▪ input voltage: 9 – 55V DC ▪ power consumption: idle 4,2W (with Quectel 5G modem: 7,2W)
<p>Other</p>	<ul style="list-style-type: none"> ▪ Mounting: DIN rail (TH35) and screw straps ▪ Updates <ul style="list-style-type: none"> ▪ the V2X Node's firmware can be updated by the user ▪ updates are installed via CAN / openBLT





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We appreciate your interest in our AMPS V2X Node! For further information, please visit our website or get in touch.

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