

INTRODUCING ANCIT SMARTWHEELS V1 PRO ECU

POWERED BY NXP S32K144 - (80 PIN)



INDIA'S FIRST DIY AUTOMOTIVE ECU KIT AND BSW CODE GENERATOR PLATFORM, DESIGNED FOR ENGINEERS, RESEARCHERS, AND ENTHUSIASTS TO SIMPLIFY AUTOMOTIVE SOFTWARE DEVELOPMENT WITH MODULES LIKE IO AND CAN.

KEY FEATURES:



PERIPHERALS

64Mb Flash, 4KB EEPROM, Passive Buzzer, RGB LED, Segger J-Link Debugger, Onboard Power Monitoring



DIGITAL OUTPUTS

- 4X High Side PWM Digital Output (VBAT)
- 4X High Side PWM Adjustable Digital Output (5V, 12V and VBAT)
- 2X High Side Power Output (4A Each)
- 2X Low Side Power Output (4A Each)
- 1X HBridge Output (3A)



ANALOG OUTPUTS

- 2x 4–20mA



WIRELESS COMMUNICATION

- ESP32 C3 Mini Wi-Fi & BLE,
- Optional 4G/2G + GPS (Neoway N58)



DIGITAL INPUTS

- 4X PU High Speed Digital Input (VBAT)
- 4X PU High Speed Digital Input (Adjustable 5V, 12V & VBAT)
- 4X PD High Speed Digital Input (0–36V)
- 4X PD High Speed Digital Input (0–5V)
- 4X PD Digital Input (0–12V)



ANALOG INPUTS

- 4x 0–10V, 4x 0–5V, 2x 0–20mA



WIRED COMMUNICATION

- Isolated CAN (Up to 1MBPS)
- CAN FD (Up to 5MBPS)
- Standard CAN (Up to 1MBPS)
- LIN 2.2A (Upto 20KBd)



POWER SUPPLY

Input: 10.8V to 36V
With Reverse Polarity Protection, Reverse Current Blocking and Transient Voltage Protection

Empower Your Innovation Today!

ANCIT is designed to work seamlessly with the ANCIT ECU straight out of the box. Using our advanced AUTOSAR ICC1 Stack, the SmartWheels AR Tool simplifies your development by generating ASWC and RTE Code effortlessly.

Contact us now to learn more!



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