

TN-NAV

Compact autopilot & integrated communications

Control.
Navigate.
Connect.

A centralized autopilot platform with integrated sensing and flexible communications for multiple vehicle applications.

COMPACT FORM. FLEXIBLE INTEGRATION.



6–48 VDC

Target power input

< 5 W

Target power consumption

< 250 g

Target device weight

FLIGHT CONTROL & SENSING

Applications	Multi-vehicle integration · eVTOL control
Sensors	2 × IMU · 2 × magnetometer 2 × barometer · Pitot
Positioning	GNSS · GNSS-denied support
Sense & avoid	Camera · LiDAR · Radar · Remote ID
Control	Up to 18 actuators

INTERFACES & PACKAGING

I/O & buses	PWM / GPIO · ADC · CAN I ² C · RS485 · Ethernet
Connectivity	4G / LTE · External LOS Satcom · Custom SDR
Panel shown	2 D-sub I/O positions · 5 RF ports
Nominal body ¹	80 × 52 × 80 mm
Temperature	–40 to +60 °C target

One flight-control platform. Dual sensor sets feed a centralized autopilot, with external interfaces grouped on one accessible panel.

Product under development. Electronic features and performance values are design targets pending validation; communications depend on configuration. ¹ Nominal body dimensions: width × depth × height, excluding connectors and mounting ears. Product visualization shown; final mechanical details are subject to confirmation.