

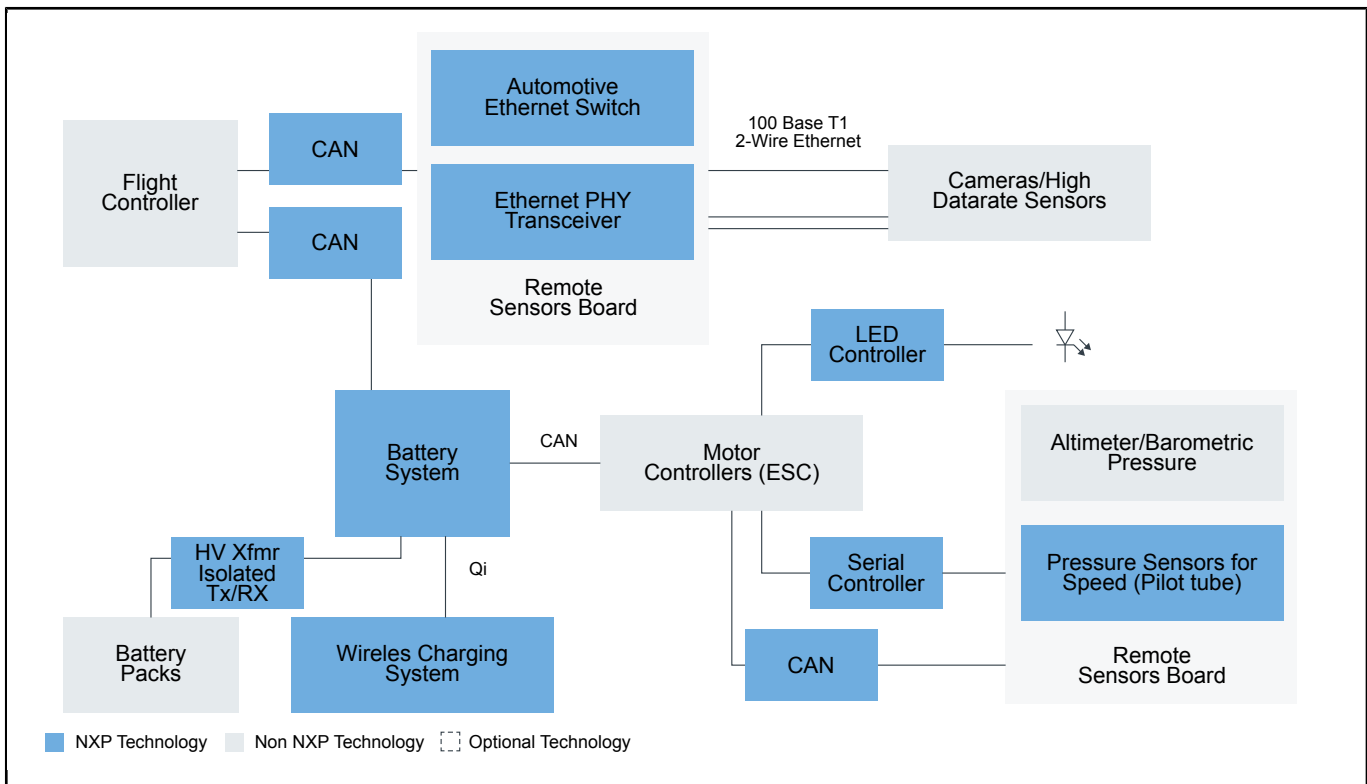


Data Buses and Battery Management

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UV's, aerial and nonaerial, are now using professional level high-reliability CAN-bus and appropriate high speed and low speed interfaces for vision systems and battery management. Advanced battery control is essential to the UV's operational success. Overall efficiency and the ability to carefully monitor and control system health, and charge seamlessly are part of the UV's development. NXP has a wide offering of high reliability automotive systems that provide developers with CAN Bus, LIN, lightweight 100 Base-T1 two wire Ethernet, and specialty isolated battery communications options.

Data Buses and Battery Block Diagram



Recommended Products for Data Buses and Battery

Battery System	<ul style="list-style-type: none"> • MC33771B: 14-Channel Li-Ion Battery Cell Controller IC
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	<ul style="list-style-type: none"> • MC34674: Single-Cell Li-Ion/Li-Polymer Battery Travel Charger
Wireless charging system	<ul style="list-style-type: none"> • MWCT1x1x: 15 Watt Wireless Charging Transmitter ICs
HV Xfmr Isolated Tx/RX	<ul style="list-style-type: none"> • MC33664: Isolated Network High-Speed Transceiver • MC33665A: General Purpose BMS Communication TPL Transceiver and CAN FD Gateway
CAN	<ul style="list-style-type: none"> • TJA1044: High-Speed CAN Transceiver with Standby Mode - Mantis Family • TJA1462: CAN Signal Improvement Capability Transceiver with Standby Mode
Serial Bus	<ul style="list-style-type: none"> • PCA9564: Parallel Bus to I²C-Bus Controller • PCA9516: Five-Channel I²C-Bus Hub
LED Controller	<ul style="list-style-type: none"> • PCA9685: 16-Channel, 12-Bit PWM Fm+ I²C-Bus LED Controller
SJA1105EL: Five- Ports AVB Automotive Ethernet Switch	<ul style="list-style-type: none"> • SJA1105EL: Five- Ports AVB Automotive Ethernet Switch
Pressure Sensor for Speed	<ul style="list-style-type: none"> • KMA3xx: High Performance Auto Rotary and Linear Position Sensor
Automotive Ethernet Switch	<ul style="list-style-type: none"> • TJA1100HN: IEEE 100BASE-T1 Compliant Automotive Ethernet PHY Transceiver • SJA1105EL: Five- Ports AVB Automotive Ethernet Switch • MC33664: Isolated Network High-Speed Transceiver

View our complete solution for [Data Buses and Battery Management](#).

Note: The information on this document is subject to change without notice.

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