

Our Offerings

Services

We offer development, integration, and in-vehicle communication testing across all mainstream automotive bus technologies. Our expertise covers AUTOSAR basic software configuration and integration throughout all vehicle development stages, supporting functional and conformance testing with reliable test scripts, clear reports and regression support.

Software Tools

We offer automotive software tools for bus analysis, diagnostics, flashing, data logging, ECU simulation, embedded debugging, timing analysis, and tracing. Our solutions help R&D and test teams shorten development cycles, verify communication performance, and accelerate reliable vehicle software integration.

Products

We provide proven off-the-shelf and tailored automotive hardware for development, testing, and validation. Our portfolio includes Automotive Ethernet converters, switches, TAPs, interface cards, and related devices, tailored to customer use cases to enable reliable in-vehicle communication and efficient engineering workflows.

Visit Us

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About Us

Techteal Engineering is a Swedish specialist supplier and engineering partner for automotive R&D and test organisations. We help vehicle manufacturers, Tier 1 suppliers and mobility companies validate in-vehicle communication technologies, with expertise in Automotive Ethernet, CAN/CAN FD, TAP/capture solutions and communication testing.

making
automotive
engineering
easier

An aerial photograph of a winding asphalt road through a dense green forest. The road curves through the trees, and a few cars are visible on it. The lighting is bright, suggesting a sunny day.

Driving the Digital Highway.
Unlocking Automotive
Ethernet.

Ethernet Everywhere

Ethernet has powered the connected world for decades — now it is becoming the common language inside the vehicle. From high-speed multigigabit backbones to 10BASE-T1S edge networks, Automotive Ethernet enables scalable, IP-ready, time-aware and cost-efficient architectures, reducing gateways, wiring, toolchain and protocol complexity as vehicles become software-defined.



Media Converters



Techteal's Automotive Ethernet 10BASE-T1S Media Converter provides a compact USB Type-C interface from any Windows PC to a 10BASE-T1S network. Bus-powered, PLCA-ready, and designed for point-to-point or multidrop use, it supports ECU development, HIL testing, diagnostics, and network validation.



Techteal's Automotive Ethernet Media Converters enable reliable bidirectional conversion between Automotive Ethernet and standard RJ-45 Ethernet. From compact 100/1000BASE-T1 units to TC10 sleep/wake-up and 2.5/5/10BASE-T1 variants, they support H-MTD/MATenet options. Ideal for ECU debugging, network testing, and lab simulation.

Switch & TAP



Techteal's Automotive Ethernet TSN Switch is a rugged 10-port managed switch for test-bench, HIL, and in-vehicle network research. With eight 100/1000BASE-T1 ports, gPTP time synchronization, VLAN, port mirroring, 10G SFP+ uplink, and web-based configuration, it enables flexible multi-ECU testing.



Techteal's Automotive Ethernet TSN TAP captures 100/1000BASE-T1 traffic non-intrusively with precise hardware timestamps. Combining TAP capture, L3 gateway functionality, and gPTP time-synchronization measurement, it supports ECU development, validation, AVB/TSN analysis, DoIP/SOME/IP diagnostics, and multi-ECU test benches.