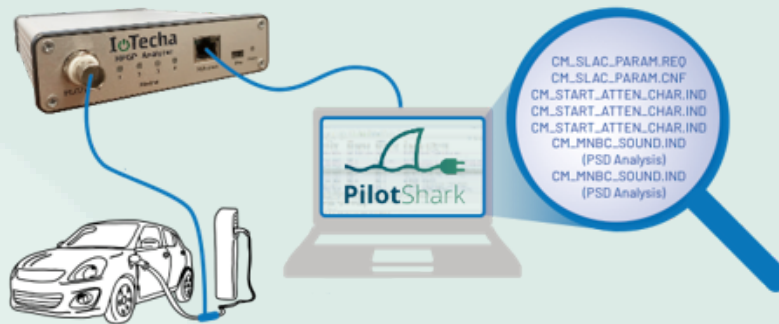# The Original Sniffer™

IoTecha's All-in-One Protocol Analyzer

IoTecha

See What Others Cannot

Your all-in-one tool to analyze, diagnose, and resolve EV charging interoperability issues with unparalleled depth and accuracy without introducing a man-in-the-middle or other signal distortions.

Delivers Comprehensive Diagnostics Without the Need to Pay for Extra Hardware and Software

The Sniffer provides complete communication analysis, from tracking visible communication between the EV and charger to detecting deeper issues like physical layer signal levels, noise, and missed packets — straight out of the box. By capturing the signal PSD for every MPDU data packet, this allows for robust signal integrity analysis — no extra software or costly licenses required. IoTecha's GPAnalyzer and PilotShark software integration ensures you're ready for detailed diagnostics from day one, including V2G.

Uncovers Signal Interference in Real Time

The Sniffer detects signal noise and interference at the physical layer in real time. Its non-invasive packet capture tracks power data without disrupting charging, ensuring seamless diagnostics and early issue detection.

Provides Full Traceability From Low-Level (MPDU) Through Application Level Message Decode

By using The Sniffer, you can trace an application-level timeout directly to what was happening on the physical media at that moment. Whether the PLC modems on the EV/EVSE were attempting to communicate but packets were negatively acknowledged, or if no transmissions were made, The Sniffer provides full visibility. With Power Spectral Density (PSD) measurements for each packet, you can export data to Excel or MATLAB for deep analysis of potential physical-layer interference. No other tool offers such comprehensive visibility, from the application message to the PSD of the packet carrying it.

Pinpoints Weak Communication Links with SLAC Overlay

The Sniffer's SLAC attenuation overlay helps you visualize the reported SLAC data overlayed with actual PSD measurements of the same packets. The Sniffer's SLAC attenuation overlay helps ensure that the reported SLAC data matches what is measured.

Empower your team with cutting-edge tools designed to identify, diagnose, and resolve EV charging interoperability issues. Contact us today! Email info@iotecha.com for more details.

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The Sniffer is designed to provide more than standard diagnostics—it delivers actionable insights that empower your team to resolve communication issues with greater speed and accuracy. Unlike other tools, The Sniffer offers a seamless, all-in-one solution that integrates effortlessly into your workflow.

FEATURE		OTHER PROTOCOL ANALYZERS
HIGH-LEVEL PROTOCOL DATA CAPTURE	✓	✓
REAL-TIME ANALYSIS OF NETWORK TRAFFIC	✓	✓
FULL ISO/IEC 15118-20 (V2G) SUPPORT AT NO EXTRA COST	✓	PRODUCT-DEPENDENT
DETECTION FOR BOTH VALID AND INVALID STATES	✓	
SLAC SIGNAL STRENGTH VISUALIZATION WITH REAL PSD OVERLAY	✓	
PSD (POWER SPECTRAL DENSITY) CAPTURE PER PACKET	✓	
TRACEABILITY FROM APPLICATION LAYER PACKETS TO PHYSICAL LAYER	✓	

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