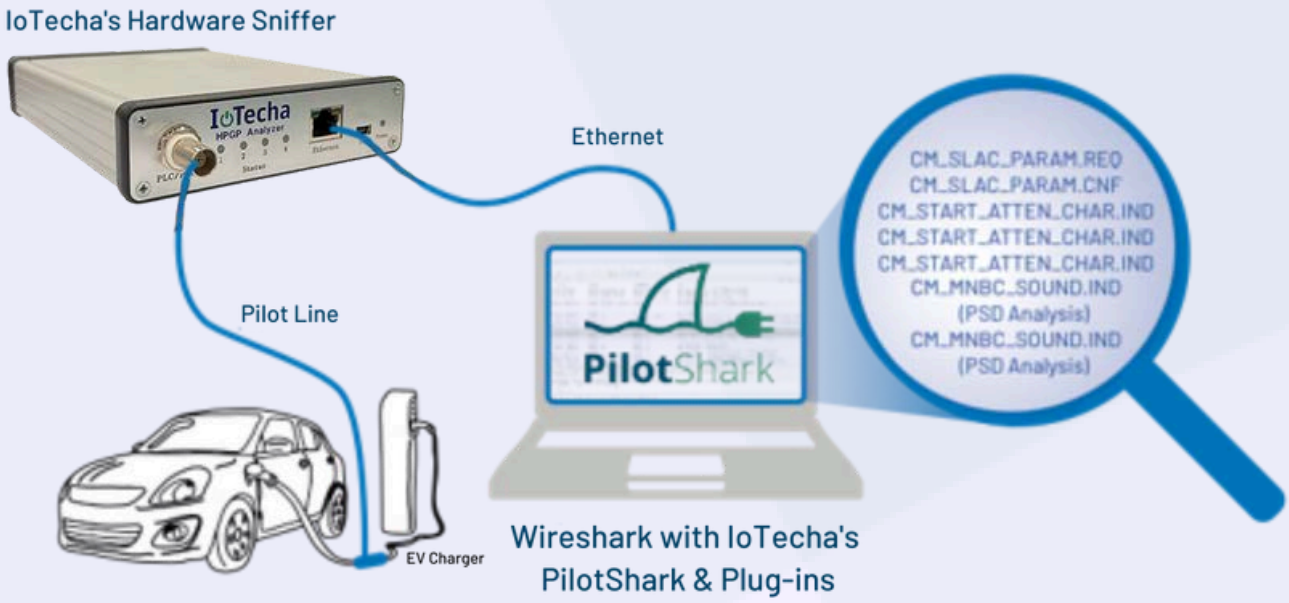
IoTecha

The Sniffer™ Portfolio & Pricing

See What Others Cannot



IoTecha's Protocol Analyzer Product Line

IoTecha Corp.
2555 US Highway 130, Suite 2
Cranbury, New Jersey 08512, USA
+1 (908) 340-6463
info@iotecha.com

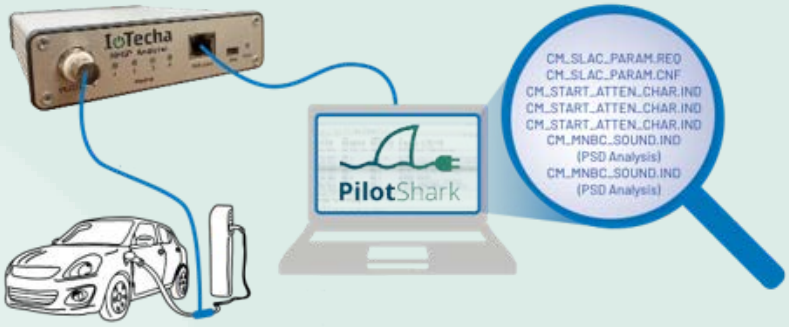
The Original Sniffer™

IoTecha

IoTecha's All-in-One Protocol Analyzer

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.

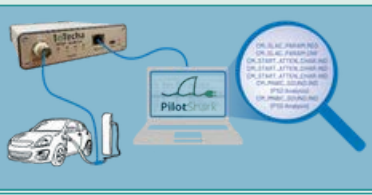
Pinpoints Weak Communication Links with SLAC Overlay

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.

The Original Sniffer™

IoTecha's All-in-One Protocol Analyzer

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	✓	

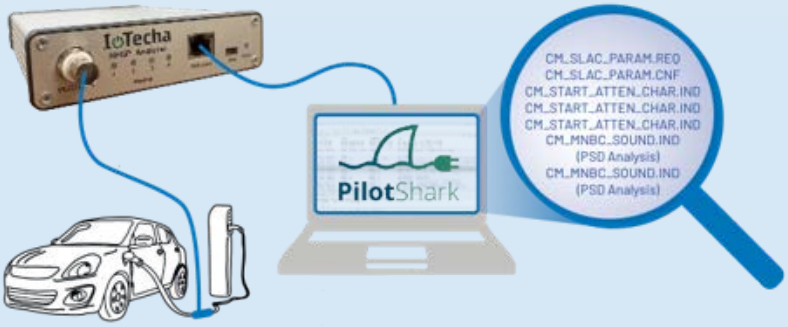
The Embedded Sniffer™

IoTecha

IoTecha's All-in-One Protocol Analyzer for Large Scale Diagnostics

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.



Scalable Diagnostics for Large-Scale Testing

Optimized for large-scale deployment, allowing manufacturers to instrument multiple vehicles with E-Sniffers simultaneously. The pricing model and technical architecture enable scalability, making it an ideal solution for automakers or testing labs needing comprehensive data collection across diverse vehicle fleets.

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

The E-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.

Customer-Specific Data Encryption

Each E-Sniffer is embedded with a unique encryption key specific to the customer, implementing per-customer encryption at the data capture level. This ensures that even if data is intercepted, it cannot be decoded or analyzed without the proprietary decryption software. This level of data security is especially crucial in scenarios where charge session data could be sensitive or proprietary.

Real-Time and Offline Data Capture

The E-Sniffer enables both real-time and post-session data capture of high-level protocols, including ISO/IEC 15118, DIN 70121, and other EV communication standards. This allows for live monitoring of charge sessions or deferred analysis with no loss of fidelity, providing maximum flexibility for lab and field testing environments.

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

By using the E-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 E-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.

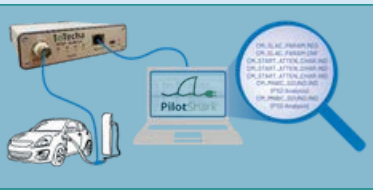
Pinpoints Weak Communication Links with SLAC Overlay

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

The Embedded Sniffer™

IoTecha's All-in-One Protocol Analyzer for Large Scale Diagnostics

The E- 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 E-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	✓	
COMMAND LINE AND BATCH PROCESSING OF DATA	✓	PRODUCT DEPENDENT
DATA ENCRYPTED ON A PER-CUSTOMER BASIS	✓	PRODUCT DEPENDENT

The Sniffer Lite™

IoTecha

IoTecha's Streamlined Protocol Diagnostics Solution

Your cost-effective solution for high-level protocol diagnostics, providing essential insights into EV charging communications with upgradeable flexibility and ease of use.

High-Level Protocol Monitoring and Capture

The Sniffer Lite™ offers comprehensive monitoring and real-time capture of key EV charging communication protocols, including ISO/IEC 15118 and DIN 70121. This allows your team to track and analyze critical interactions between electric vehicles and charging stations, ensuring seamless compliance and performance in both AC and DC charging environments.

Real-Time Error Detection and Diagnostics

With its real-time error detection capabilities, the Sniffer Lite™ identifies and reports communication issues such as protocol misalignment, failed message exchanges, and invalid state transitions. This enables prompt troubleshooting, minimizing downtime and ensuring the reliability of EV-to-charger communication.

Live Data Capture for Immediate Analysis

The Sniffer Lite's real-time data capture functionality provides immediate insights into ongoing charging sessions. By allowing you to view communication exchanges as they happen, it ensures that issues can be detected and addressed in real-time, supporting efficient test operations.

Protocol Decoding for Efficient Troubleshooting

The Sniffer Lite™ simplifies the analysis process by decoding captured raw data into an easily understandable format. It provides your team with clear insights into message exchanges and protocol details, speeding up the troubleshooting process and reducing the need for manual interpretation of complex communication data.

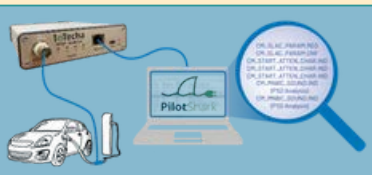
Upgradeable to Full Original Sniffer™ Functionality

The Sniffer Lite™ is fully upgradable via firmware to the full Original Sniffer™ functionality, including low-level physical layer capture and SLAC diagnostics. This provides users with a flexible and scalable solution, allowing teams to start with high-level diagnostics and expand to more advanced features as needed without purchasing new hardware.

The Sniffer Lite™

IoTecha's Streamlined Protocol Diagnostics Solution

The Sniffer Lite™ offers essential protocol diagnostics in a streamlined package. Designed for simplicity and efficiency, it provides the insights you need to quickly identify and address communication issues. With upgradeable capabilities, Sniffer Lite™ integrates seamlessly into your existing processes, offering a cost-effective solution for high-level analysis without compromising on performance.

FEATURE		OTHER PROTOCOL ANALYZERS
HIGH-LEVEL PROTOCOL DATA CAPTURE	✓	✓
REAL-TIME ANALYSIS OF NETWORK TRAFFIC	✓	✓
SOFTWARE FOR DECODING (ISO AND DIN) INCLUDED AT NO EXTRA COST	✓	PRODUCT-DEPENDENT
FULL ISO/IEC 15118-20 (V2G) SUPPORT AT NO EXTRA COST	✓	PRODUCT-DEPENDENT
DETECTION FOR BOTH VALID AND INVALID STATES	✓	
UPGRADABILITY TO FULL	✓	

The Sniffer™ Portfolio

IoTecha

IoTecha's Protocol Analyzer Product Line

Pricing*

Product	Total Price per Unit	Minimum Order Quantity
The Original Sniffer™ **Pricing includes:** • HomePlug GP Protocol Analyzer w/ SW release w/ support for ISO/IEC-15118-20: $30,000 / unit • PilotShark V2G: $3,000 / unit • First Year Annual Maintenance: *included in the unit price*	$33,000 per unit	1 unit
The Embedded Sniffer™ **Pricing Includes:** • Embedded HPGP Protocol Analyzer: $5,400 / unit • Site License Fee: *included in the unit price* • First Year Annual Maintenance: *included in the unit price*	$5,400 per unit	20 units
The Sniffer Lite™ **Pricing Includes:** • HomePlug GP Protocol Analyzer w/ SW release w/ support for ISO/IEC-15118-20 plus Pliot Shark V2G: $7,000 / unit • First Year Annual Maintenance: *included in the unit price*	$7,000 per unit	1 unit

See What Others Cannot

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.**

*The prices presented in this document represent current pricing for related order quantities. Additional Terms and Conditions Apply