



AUTOMOTIVE STANDARDS + CYBERSECURITY UPDATE



CYBERTECH CYBERGUARD

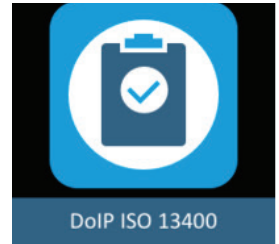


Diagnostics over IP (DoIP ISO 13400)

- Allowed by CARB beginning with MY 2026 vehicles
- In addition to CAN protocols
- Design/redesign your automotive networks now!

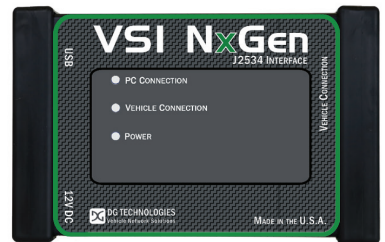
Benefits of DoIP

- Diagnostics run over Ethernet TCP/IP
- Faster than CAN!
- Simplifies complex diagnostic tasks
- Direct vehicle network access
 - A Vehicle Communication Interface (VCI) is not needed



Powerful VCI is best

- When diagnostics use a CAN-bus/Ethernet mix
- Use DG's VSI NxGen to benefit from DoIP upcoming availability



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Vehicle Network Solutions
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Automotive Cybersecurity

- SAE J3138: Describes actions to ensure safe vehicle operation
- When connected test equipment/data collection device:
 - Is compromised external to the vehicle
 - Applies to SAE J1979, ISO 15765 & 14229
- Can apply to Over-The-Air (OTA) updates & Re-flashing



STAR COOPERATION®

Automotive Ethernet

- Is an additional vehicle network to CAN
- Speeds of 10 to 1000baseT
- DG Tech, Star, Spirent & Xena are advanced testing resources
- DG Tech has 2-wire AE conversion
 - From 4-wire standard Ethernet
 - Speeds of 100baseT to 1000baseT (1G)
 - Available in SFP Module
 - **S**mall **F**orm-function **P**luggable



- Use with Spirent's comTT for AE design & engineering the best in vehicle networks!



Contact DG for all of your Automotive Ethernet Needs!



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