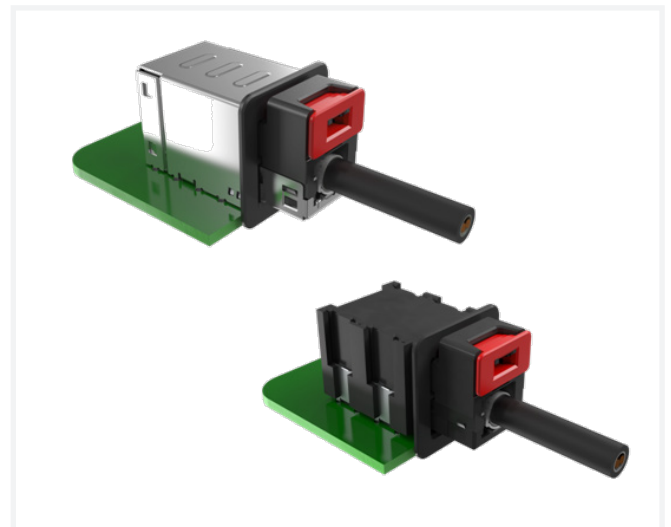


NETBridge™ Automotive Ethernet Connector System

COMPLIANT WITH USCAR-2 SPECIFICATIONS; IDEAL FOR AUTOMOTIVE APPLICATIONS

NETBridge™ Automotive Ethernet Connector System is designed for the harsh automotive environment and can transmit up to 100Mb/s and 1Gb/s according to IEEE 100BASE-T1 and 1000BASE-T1. These automotive grade Ethernet connection system uses twisted-pair cables to transmit data. NETBridge™ is developed in accordance with USCAR-2, VDAAK LV214 and ISO 8092-2.

- 0.50mm x 0.40mm tab terminal system
- Temperature range -40°C to +100°C in sealed and unsealed configuration
- Waterproof version present in development
- CCPA for secondary lock of contact carrier assembly
- Optional CPA for secondary lock in mated condition



TARGET MARKETS



FEATURES

- Automotive grade Ethernet application
- Scalable port options with 1x1 to 1x7 ports for connector and 1x1, 1x5 for inline adaptor
- Touch proof design
- Mechanical and visible color coding
- Available in shielded and unshielded cable options
- Mechanically robust design
- CCPA for secondary lock of contact carrier

BENEFITS

- Offers higher data rate transmission
- Design flexibility
- Contact pin protection
- Avoids mismatching
- Supports different EMC behaviors
- Easy installation
- Ensures proper connector assembly

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic, UL 94V-0
- Contacts: Brass
- Shell: Phosphor Bronze

MECHANICAL PERFORMANCE

- Extraction Force without Locking Latch: 75N max.
- Extraction Force: 110N max.
- Durability: 10 cycles

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 15mΩ max.
- Contact Current Rating: 3A
- Dielectric Withstanding Voltage: 500VAC

PACKAGING

- Tray
- Tape & Reel

SPECIFICATION

- Amphenol Product Specification: NETBridge™ series

ENVIRONMENTAL

- Humidity: 40 cycles between -40°C to +100°C. Relative Humidity 0% to 95%
- Vibration: V1 Class
- Thermal Shock: 100 cycles between -40°C to +100°C

APPROVALS AND CERTIFICATION

- USCAR-2 Compliant
- IATF Production Compliant
- RoHS
- REACH/SVHC
- Low Halogen

TARGET MARKETS/APPLICATIONS



Body Control, Safety, Security, and Comfort
Advanced Driver Assistance Systems (ADAS)
Infotainment

PART NUMBERS

Description	Part Numbers
NETBridge™ 1X1, DIP, 100Mbps, No ESD, Code 1	NTBM11R0U01110T
NETBridge™ 1X2, DIP, 100Mbps, No ESD, Code 1	NTBM12R0U01110T
NETBridge™ 1X3, DIP, 100Mbps, No ESD, Code 1	NTBM13R0U01110T
NETBridge™ 1X4, DIP, 100Mbps, No ESD, Code 1	NTBM14R0U01110T
NETBridge™ 1X5, DIP, 100Mbps, No ESD, Code 1	NTBM15R0U01110T
NETBridge™ 1X6, DIP, 100Mbps, No ESD, Code 1	NTBM16R0U01110T
NETBridge™ 1X7 DIP, 100Mbps, No ESD, Code 1	NTBM17R0U01110T
NETBridge™ 1X1 Ethernet adaptor w ground shield connector	NTBA120002T
NETBridge™ 1X5 Ethernet adaptor w ground shield connector	NTBA1520002T