

NETBridge+™ Automotive Ethernet Connector System

USCAR-2 COMPLIANT AUTOMOTIVE ETHERNET CONNECTORS

NETBridge+™ Automotive Ethernet Connector System is designed for automotive applications and can transmit up to 100Mb/s and 1Gb/s according to IEEE 100BASE-T1 and 1000BASE-T1 and will be upgraded to 10Gb/s.

These Automotive-grade Ethernet Connector Systems use single pair cables to transmit data. NETBridge+™ is developed according to USCAR-2 and Ethernet specifications, and is offered in miniaturized and sealed configurations.

- Fully shielded versions and small form factor
- Temperature range -40°C to +105°C in sealed and unsealed configurations
- USCAR-T2V1 compatible
- Connector Position Assurance (CPA)



TARGET MARKETS



FEATURES

- Offers higher data transmission rate
- Scalable port options with 1x1 to 1x3 and 2x2 to 2x3 ports for right angle and vertical configurations
- Touch proof design
- Fully shielded versions
- Mechanical and visible color coding
- Mechanical and robust design
- CCPA for secondary lock of contact carrier
- Small form factor

BENEFITS

- Suitable for automotive grade Ethernet applications
- Design flexibility
- Contact pin protection
- Improved signal performance
- Avoids mismatching
- Easy installation
- Ensures proper connector assembly
- Saves board space

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature thermoplastic, UL94V-0
- Contacts: Copper alloy
- Board Lock: Copper alloy

MECHANICAL PERFORMANCE

- Mating Force: 75N max.
- Withdrawal Force: 1N min.
- Durability: 25 cycles min.

ELECTRICAL PERFORMANCE

- Insulation Resistance: Not be less than 100MΩ.
- Contact Current Rating: 3A max.
- Dielectric Withstanding Voltage: 500V AC

APPROVALS AND CERTIFICATIONS

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

ENVIRONMENTAL

- Temperature/Humidity: 40 cycles between -40 to +105°C, Relative Humidity 0% to 95%.
- Vibration: V1 Class
- Thermal Shock: 100 cycles between -40°C to 105°C

SPECIFICATIONS

- Product Specification: S-NTH-001
- Packaging Specification: PKSNTN005, PKSNTN006

PACKAGING

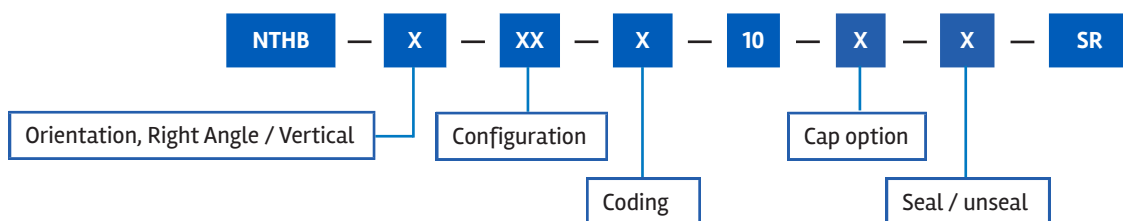
- Board Connector: Reel

TARGET MARKETS/APPLICATIONS



BCU (Body Control Unit)
ZCU (Zone Control Unit)
LiDAR
mmWave Radar
Camera Module
Advanced Driver Assistance Systems (ADAS)
Infotainment

PART NUMBER SELECTOR



PART NUMBERS – PCB SIDE CONNECTOR

Description	Data Rate	Code	Part Numbers
NETBridge+™ 1x1 RA Seal	100M/1G	A	NTHBR11A1000SR
NETBridge+™ 1x1 RA Seal	100M/1G	B	NTHBR11B1000SR
NETBridge+™ 1x1 RA Seal	100M/1G	C	NTHBR11C1000SR
NETBridge+™ 1x1 RA Seal	100M/1G	D	NTHBR11D1000SR
NETBridge+™ 1x1 RA Seal	100M/1G	Z	NTHBR11Z1000SR
NETBridge+™ 1x1 RA Unseal	100M/1G	A	NTHBR11A1001SR
NETBridge+™ 1x1 RA Unseal	100M/1G	B	NTHBR11B1001SR
NETBridge+™ 1x1 RA Unseal	100M/1G	C	NTHBR11C1001SR
NETBridge+™ 1x1 RA Unseal	100M/1G	D	NTHBR11D1001SR
NETBridge+™ 1x1 RA Unseal	100M/1G	Z	NTHBR11Z1001SR
NETBridge+™ 1x2 RA Unseal	100M/1G	A	NTHBR12A1001SR
NETBridge+™ 1x2 RA Unseal	100M/1G	B	NTHBR12B1001SR
NETBridge+™ 1x2 RA Unseal	100M/1G	C	NTHBR12C1001SR
NETBridge+™ 1x2 RA Unseal	100M/1G	D	NTHBR12D1001SR
NETBridge+™ 1x2 RA Unseal	100M/1G	Z	NTHBR12Z1001SR
NETBridge+™ 1x3 RA Unseal	100M/1G	A	NTHBR13A1001SR
NETBridge+™ 1x3 RA Unseal	100M/1G	B	NTHBR13B1001SR
NETBridge+™ 1x3 RA Unseal	100M/1G	C	NTHBR13C1001SR
NETBridge+™ 1x3 RA Unseal	100M/1G	D	NTHBR13D1001SR
NETBridge+™ 1x3 RA Unseal	100M/1G	Z	NTHBR13Z1001SR
NETBridge+™ 2x2 RA Seal	100M/1G	A	NTHBR22A1000SR
NETBridge+™ 2x2 RA Seal	100M/1G	B	NTHBR22B1000SR
NETBridge+™ 2x2 RA Seal	100M/1G	C	NTHBR22C1000SR
NETBridge+™ 2x2 RA Seal	100M/1G	D	NTHBR22D1000SR
NETBridge+™ 2x2 RA Seal	100M/1G	Z	NTHBR22Z1000SR
NETBridge+™ 2x2 RA Unseal	100M/1G	A	NTHBR22A1001SR
NETBridge+™ 2x2 RA Unseal	100M/1G	B	NTHBR22B1001SR
NETBridge+™ 2x2 RA Unseal	100M/1G	C	NTHBR22C1001SR
NETBridge+™ 2x2 RA Unseal	100M/1G	D	NTHBR22D1001SR
NETBridge+™ 2x2 RA Unseal	100M/1G	Z	NTHBR22Z1001SR
NETBridge+™ 2x3 RA Seal	100M/1G	A	NTHBR23A1000SR
NETBridge+™ 2x3 RA Seal	100M/1G	B	NTHBR23B1000SR
NETBridge+™ 2x3 RA Seal	100M/1G	C	NTHBR23C1000SR
NETBridge+™ 2x3 RA Seal	100M/1G	D	NTHBR23D1000SR
NETBridge+™ 2x3 RA Seal	100M/1G	Z	NTHBR23Z1000SR
NETBridge+™ 2x3 RA Unseal	100M/1G	A	NTHBR23A1001SR
NETBridge+™ 2x3 RA Unseal	100M/1G	B	NTHBR23B1001SR
NETBridge+™ 2x3 RA Unseal	100M/1G	C	NTHBR23C1001SR
NETBridge+™ 2x3 RA Unseal	100M/1G	D	NTHBR23D1001SR
NETBridge+™ 2x3 RA Unseal	100M/1G	Z	NTHBR23Z1001SR

PART NUMBERS – PCB SIDE VERTICAL CONNECTOR

Description	Data Rate	Code	Part Numbers
NETBridge+™ 1x1 VT Seal W/O Cap	100M/1G	A	NTHBV11A1001SR
NETBridge+™ 1x1 VT Seal W/O Cap	100M/1G	B	NTHBV11B1001SR
NETBridge+™ 1x1 VT Seal W/O Cap	100M/1G	D	NTHBV11D1001SR
NETBridge+™ 1x1 VT Seal W/O Cap	100M/1G	Z	NTHBV11Z1001SR
NETBridge+™ 1x1 VT Unseal W/O Cap	100M/1G	A	NTHBV11A1002SR
NETBridge+™ 1x1 VT Unseal W/O Cap	100M/1G	B	NTHBV11B1002SR
NETBridge+™ 1x1 VT Unseal W/O Cap	100M/1G	D	NTHBV11D1002SR
NETBridge+™ 1x1 VT Unseal W/O Cap	100M/1G	Z	NTHBV11Z1002SR
NETBridge+™ 1x1 VT Seal With Cap	100M/1G	A	NTHBV11A10C1SR
NETBridge+™ 1x1 VT Seal With Cap	100M/1G	B	NTHBV11B10C1SR
NETBridge+™ 1x1 VT Seal With Cap	100M/1G	D	NTHBV11D10C1SR
NETBridge+™ 1x1 VT Seal With Cap	100M/1G	Z	NTHBV11Z10C1SR
NETBridge+™ 1x1 VT Unseal With Cap	100M/1G	A	NTHBV11A10C2SR
NETBridge+™ 1x1 VT Unseal With Cap	100M/1G	B	NTHBV11B10C2SR
NETBridge+™ 1x1 VT Unseal With Cap	100M/1G	D	NTHBV11D10C2SR
NETBridge+™ 1x1 VT Unseal With Cap	100M/1G	Z	NTHBV11Z10C2SR

单击下面可查看定价，库存，交付和生命周期等信息

[>>Amphenol\(安费诺\)](#)