

NET-CAN

■ Ethernet Interface

Speed/Type	100Mbps/10Mbps Auto-detecting
Connector	RJ45 (8P8C) 8 pin
LEDs	Power, WLAN, Ready, Ethernet Link / Speed

■ CAN Bus

No. of Ports/Type	1 × CAN Bus
Connector	DB9 male
Protection	16kV ESD surge protection
Signals	CAN_H, CAN_L, CAN_GND
Speed	CAN 2.0A / 2.0B 1Mbit/s
LED	CAN-Data, CAN-Error

■ Operating Modes

TCP Raw Server	Raw Data transfer over TCP/IP. Accepts multiple incoming connections.
CAN Bridge	CAN networks are connected via TCP/IP (WLAN or Ethernet). A client connects to a Server, CAN frames received on one network are repeated on the other network. Driver for virtual COM port available for
Virtual Com Mode	<ul style="list-style-type: none">• Windows 2000, XP up to Windows 10• Windows Server 2000 up to 2008 R2

■ Software

VSCAN API	<ul style="list-style-type: none">• Unified API for control all VScom CAN-Adapters.• Supported OS: Windows, CE, Linux (x86, x86-64, ARM) targets.• Supported Dev.Env: C/C++, C#, VB.NET, Delphi and LabVIEW.
Linux OS	Supports SocketCAN (slcan driver) since kernel 2.6.38+ Also see this FAQ
CANopen	Open source CANfestival framework fully implements CANopen functionality.
SAE J1939	Automotive protocol suite supported by VScom's J1939 API. Supports NME200, ISOBUS, MilCAN and FMS protocols for Windows, Linux and .NET
Monitoring Tools	Bosch BUSMASTER v3.2.0 and above
Data Coding	ASCII format
CAN Modes	Standard Mode Normal operation on CAN bus Listen Mode Passive receive of CAN Frames, neither ACK bits nor Error Frames are sent Self Reception (Echo Mode) For testing: Transmitted Frames are also received by the adapter



Gleneagles House, 31 Riverside Road, West Moors, BH22 0LG

Tel: 01202 861512

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■ Installation & Configuration

UPnP	With Network discovery enabled NetCom Plus servers announce their presence via UPnP making their IP visible.
Configuration	<ul style="list-style-type: none">• NetCom Manager to find and configure NetCANS in network• Driver Panels, WEB Browser, Serial Console, Telnet, SNMP
Firmware Update	via WEB Browser
Firewall	Virtual-COM mode works through firewalls

■ Security

Password Protection	for all available configuration options e.g. via WEB-Browser
Secure Server	create openVPN™ tunnels, for encrypted transmission of all serial and configuration data using high security SSL/TLS standards.

■ viaVPN Remote Access (option)

Connect via Internet	viaVPN technology provides easy and secure access to remotely installed NetCom Plus servers for their configuration or for connecting their virtual COM ports through Internet. With the viaVPN option the NetCom Plus servers are no more limited to only work inside of a local network.
Security	All communications use openVPN-tunnels encrypted by SSL/TLS and AES-256 standards.
Firewall friendly	No Reconfiguration of firewalls is required for viaVPN remote access.

■ Wireless interface (WLAN model only)

Standards	2.4GHz Radio, supports IEEE Std. 802.11b/g/n
WLAN Modes	Access Point (AP) or Client (Station)
TX Power	802.11b: Typ. 15.5dBm ±1.5 dBm @ 1Mbps (DSSS) Typ. 15.5dBm ±1.5 dBm @ 11Mbps (OFDM) 802.11g: Typ. 15.6dBm ±1.5 dBm @ 6Mbps (CCK) Typ. 13.5dBm ±1.5 dBm @ 54Mbps (OFDM) 802.11n: Typ. 13.4dBm ±1.5 dBm @ 6.5Mbps (OFDM) Typ. 13.3dBm ±1.5 dBm @ 150 Mbps(OFDM)
RX Sensitivity	802.11b: -95.6dBm @ 1Mbps, -88dBm @ 11Mbps 802.11g: -91.3dBm @ 6Mbps, -74.2dBm @ 54 Mbps 802.11n: -88.8dBm @ 6.5Mbps (20 MHz), -72dBm @ 72.2Mbps (20 MHz)
Transmission Rate	802.11b: 11Mbps 802.11g: 6 to 54Mbps 802.11n: 6.5 to 150Mbps
Transmission Distance	Up to 100m in open areas
Wireless security	<ul style="list-style-type: none">• WEP• WPA• WPA2



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- WPA2-Enterprise (IEEE 802.1X/RADIUS)

Antenna Connector	RP (Reverse-Polarity) SMA
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■ Power Requirements

Input Voltage	9 - 54V DC
Power Consumption	0.25A @ 12V, 2.7W max
Connector	3-pin Terminal Block

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■ Housing and Mounting

Case	0.8mm sheet metal
Weight	w/o box 0.25kg; w/h box 0.40kg
Dimensions	115x73x25 mm ³ (WxLxH)
Packaged	150x107x48 mm ³
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wall mount (optional)

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■ Environmental Data

Operating Temp	-20°C - 65°C
Storage Temp	-20°C – 85°C
Ambient Humidity	5-95% non condensing

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■ Standards

Declarations	CE, FCC
EMI	<ul style="list-style-type: none"> • EN 55022 Class B • EN 61000-3-2: Limits of harmonic current emissions • EN 61000-3-3: Limitation of voltage changes • 47 CFR FCC Part 15 Subpart B
EMS (EN 55024)	<ul style="list-style-type: none"> • EN 61000-4-3: Radiated RFI • EN 61000-4-4: Electrical Fast Transient • EN 61000-4-5: Surge • EN 61000-4-6: Induced RFI • EN 61000-4-8: Power Frequency Magnetic Field • EN 61000-4-11: Power supply dips
ESD	<p>IEC 61000-4-2 4kV contact 8kV air for</p> <ul style="list-style-type: none"> • CAN Bus Port • USB • Ethernet • DC Power connector

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■ MTBF (Mean Time Between Failures)

MTBF	42.4 Years @ 25°C
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13.7 Years @ 45°C

MTBF WLAN model

34.4 Years @ 25°C
12.7 Years @ 45°C

Standard

Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7

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■ Warranty

Warranty Period

2 years



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