

# NETWAY 94 Data Sheet

Stand-alone real-time multiplex simulation and analysis tool



NW94

FEATURE	NETWAY 94
Analog Inputs	4 channels (0~15V, 12 bits resolution)
Digital Inputs	16 channels, event generation on transition. "1" - greater than 3V, "0" if less
Digital Open Drain Outputs	6 channels, 50V/500mA
PWM Inputs	4 channels, measures frequency and duty cycle
CAN channels	Two independent CAN channels, a high-speed transceiver
UART channels	Two independent UART channels, transceivers K-Line, RS485
SD Card	8/16/32/64 GB card, File operations controlled by the emulation
PC Interface	Mini USB, a built-in serial bridge for firmware update
Network Connector	15-pin HDB connector for power, networks, and I/O signals
Dimensions	3 " x 1.8" x 0.9" (plastic enclosure)
Application compatibility	Windows XP and later OS (32 or 64 bit OS)
Control Library	nwCtrl.dll – MS Studio 6, LabWindows, LabView (32 or 64 bit OS) nwCtrlCOM.dll – MS Studio 8, MS Studio 10 (32 or 64 bit OS)
Product ID	NW94

**Note 2:** Control Library (nwCtrl.dll and nwCtrlCOM.dll) license must be purchased separately. The department license comes with a library manual and demo examples


## Tool Features:

- **CAN:** Two independent CAN channels
  - Channel 1 & 2: High-Speed Dual-Wire CAN
  - Software controlled bus termination for both channels
  - Standard 11-bit and 29-bit (extended) header
  - Supports multi-frame CAN (ISO-15765)
  - Supports J2534 with SET32.DLL library
  - J1939, J1979, and more
- **UART:** Two independent channels: UART protocols - LIN 2.1(1.3), KWP2000, KWP1281, ISO9141-1, ISO9141-2, J1708, J1587, SAEJ1922, etc. Selection of transceivers for channel 2: LIN (K-Line), RS485. Block transfer support.
- **SD Card:** allows open, close, rename, delete log files, card capacity status monitor, etc
- **Outputs** are open drain, pull-up maximum to 50V, load maximum 500mA.
- **Input** signals range 0~15V, 12 bits resolution.
- **Emulation** script language for real-time networks and signals simulation, worst-case resolution less than 1ms for all operations including data logging, network simulations, and I/O signal measurement and generation.
- **Events** triggered by network messages, timers, or/and I/O signal transitions
- **Stand-alone** operations including in-vehicle gateway, end-of-line test, on bench rest of vehicle simulator, data logging, etc. Sleep mode current consumption is less than 1mA.
- **Flexible** dynamic filtering for data logging.
- When connected to PC unlimited logging and analysis with a variety of graphical network signals representation is available. Traffic replay and more.
- **Warranty** and technical support (free software/firmware upgrades) for one full year from the purchase date.