

# netX Diagnostic and Remote Access

'netX Diagnostic and Remote Access' is a collective term describing the possibilities to connect host systems to a netX based target system or a remote workstation running a netX based hardware. This can be done in different ways. One of it is the connection via a standard physical interfaces like RS232, USB or Ethernet and services which transferring logical commands between host and the target (*netXTransport and netXMarshaller*). While the other one offers physical access to netX51/52 internal memory using a dedicated build-in SPI interface and USB (*netX serial DPM via USB*).

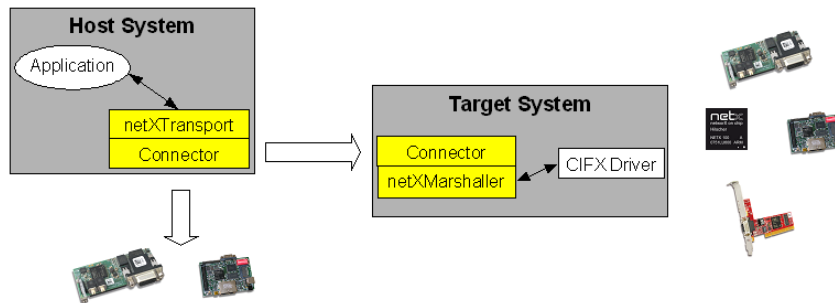
- [FAQ - NXDIAG](#)
- [netXTransport and netXMarshaller](#)
- [netX Serial DPM via USB/SPI](#)
- [Product CD](#)

Currently available approaches:

- ***netXTransport and netXMarshaller***

Both services together providing a standard diagnostic interface for netX based systems via common physical connections (serial, USB, Ethernet) in combination with standard access functions (cifX API / rcX data packages) and the possibility to use the target connection for runtime data access and data exchange between the host and the target. Where *netXTransport* holds the host side and *netXMarshaller* the target side implementation.

All netXTransport and netXMarshaller components are available in source code and portable to different operating system. The product CD includes example implementations for Windows and Linux.



- ***netX serial DPM via USB***

netX51/52 offering a hardware implemented **SPI to DPM** (Dual-Ported Memory) access interface. This access possibility is extended by adding a FTDI-SPI to USB converter to the netX evaluation hardware which now allows to connect a netX hardware via USB to a standard PC and without the need of a SPI controller. An application can use the known CIFX-API to communicate with the hardware. The API is available via the netXSPMUSB Windows based DLL.

