

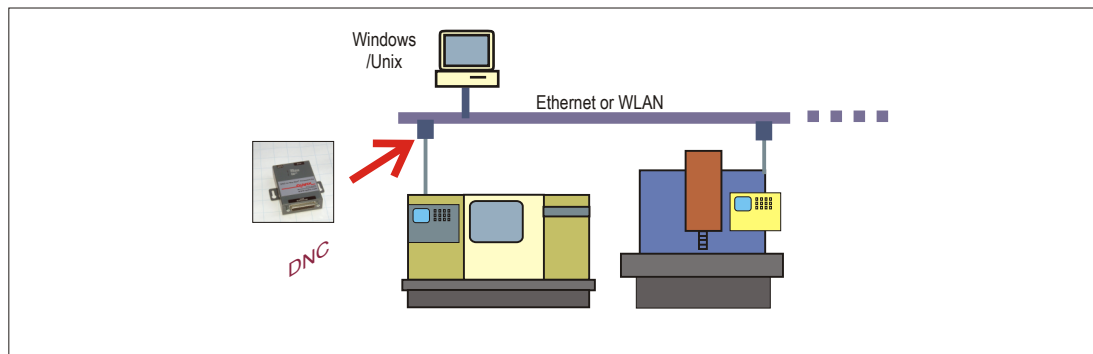
# Smart DNC Network Adaptor

**DNC-In-The-Box®** (DITB) is the name of the firmware that converts dumb network adaptors into smart adaptors. DITB uses TCP/IP and FTP for the data transfer and hosts all machine specific settings for format and transfer of the data. Machine specific DNC protocols, such as Mazatrol or Heidenhain protocol are also embedded its firmware. It allows to connect machine tool controls with serial interface directly to the network and transfer files to and from any computer without need for a specific DNC program, using just any computer's FTP server software.

DNC-In-The-Box® is configured directly via network with Telnet or DeviceInstaller software. Once set up, it automatically recognizes uploads and downloads, stores files with its correct name on the server and delivers NC programs in the right format to the controller to which it is dedicated. All machine tool controls can access simultaneously their own files on a host computer. DITB allows all machines to retrieve NC programs directly from the control's keyboard.

## Your benefit:

- Many simultaneous transfers possible
- 100% accurate file transfer via network
- Program access from keyboard of the control
- Runs with any Computer that supports an FTP server
- Program storage in target directory of each machine



## Supported CNC Controls

Controls without protocol, such as: Fancu, Siemens, Mitsubishi, Num, Okuma, Philips Bosch and many others.

Controls with their own protocol: Heidenhain, Mazatrol, others on request.

## Requirements

Any computer with FTP server software (Windows, Apple, Unix, AS/400)

Network connection to the machine tool (Ethernet, WLAN),

110V/220 V power connector or 24V directly from machine

**DNC-In-The-Box®**

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## 10 Good Reasons to Use DNC-In-The-Box®

### 1. DNC-In-The-Box gives you direct access from the keyboard of your control

- Save directly to a defined save directory (= upload), using simply the controller's punch function
- Direct request of NC programs from the controller's keyboard using a dummy program
- Load directly from the configured load path into the control (= download)

### 2. Simultaneous load and save from several machines

- Automatic multitasking, the FTP software allows many transfers at the same time
- All kinds of transfers are supported: simple file transfer and drip feed mode.

### 3. DNC-In-The-Box supports all controls

- All different controls are supported, provided they have a serial interface and are able to send and receive NC programs.
- Special protocols are supported, such as Mazatrol, Heidenhain, etc.

### 4. DNC-In-The-Box can be easily configured (via network)

#### 4.1. Local parameters:

- IP address of the box (resp. machine)
- Target address of the host computer
- Serial speed, data format etc.

#### 4.2. FTP settings:

- user name, password, etc.

#### 4.3. DNC driver settings:

- Start-/end characters of NC program
- Leader/trailer etc.

### 5. DNC-In-The-Box provides secure access to only those part programs that fit the machine

- Identical machines can access common NC programs that belong to the machine group

### 6. DNC-In-The-Box gives you optimal transfer safety and data integrity

- Using the shortest possible RS-232 cables allows you to transfer at the highest speed (supported by the control)
- Data check and error correction is done by TCP/IP protocol

### 7. DNC-In-The-Box works with any data management software

- Either your computer's file manager application or
- A customer-owned database system (Access, SQL-Server, Oracle etc.) or
- A CAM system's data management tool or
- The sophisticated Quinx LeanDNC or DNC5000 data management systems

### 8. Unlimited growth of the system with DNC-In-The-Box

- Just one computer (e.g. a Windows PC etc.) can control any number of connected CNC machines on your network
- The number of machines on your network is limited only by the computer's and ethernet's limitations

### 9. DNC-In-The-Box is your ultimate DNC solution

- Computers may change over the time - the network, FTP protocol and the box will remain!
- DNC-In-The-Box can be used for as long as you work with your actual machines and can also be used with the next generations of machines

### 10. Return On Investment (ROI) in in less than one year!

- By reduced non-productive downtime for program changes
- By simplified and centralized data storage
- By automatized and simplified data backup
- Eliminated machine crashes and reduced scrap caused by noise on RS-232 lines

**Real DNC never has been this affordable before!**

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