

## MERLIN Siemens 840D MTConnect Adapter w/ SINUMERIK operate on NCU

**Description:** MTConnect Adapter for Siemens SINUMERIK 840Dsl (Solution Line) CNCs with SINUMERIK Operate HMI on NCU (Embedded) with 2.x or 4.x NCU software. This Adapter is for a single channel CNC.

**Device:** Siemens NCU (Resident On Device)

**Adapter OS:** Linux

**MTConnect:** Compatible with MTConnect Open Source C++ Agent, Version 1.2 or 1.3

### Data Items:

- Axes: Position (actual), Load
- Spindle: Speed (actual, commanded), Load, Speed Override (%), Direction, Mode (INDEX or SPINDLE)
- Feedrate: actual and commanded, Override (%), Rapid Override (%)
- Controller Mode, Execution Mode
- Program Name, Block, Line
- Part Count, Single Block
- Tool ID, Name
- Emergency Stop

**Options:** Available per quote. Possible customizations including sampling rate, additional data items, system variables, R parameters, user variables (global, program, local), servo data, and PLC data items.

Multi-channel CNCs: for CNCs configured with more than one control path (channel), additional engineering is required and can be provided per quote.

The logo for MERLIN, featuring a stylized white bird icon above the word "MERLIN" in blue capital letters, all set against a light orange background.

MERLIN is an IIoT  
Shop-Floor-to-Top-Floor  
communications  
platform that provides  
manufacturing analytics  
in Real-Time

**Dependencies:** This Adapter runs on the 840D NCU. Installer must be familiar with use of WinSCP and Telnet or PuTTY to verify correct operation.

CNC IP address must be reserved.

SINUMERIK 840D SL SINUMERIK INTEGRATE RUN MYHMI /3GL (Siemens P/N 6FC5800-0AP60-0YB0) must be enabled. Check License page on the CNC. MEMEX will not provide this Adapter unless this license is present. MEMEX can provide this license if needed.

**Required Info:** Machine make, model, year, asset tag; Axis and Spindle names (please provide exactly as displayed); NCU hardware S/N (to determine option content); Ethernet MAC Address, CNC IP Address; HMI software version (complete).

**To Note:** This Adapter is not for SINUMERIK 840Ds where the HMI runs on the PCU. Please choose the correct VizAdapter for this configuration.

840Dsl CNCs running 1.x NCU software with embedded HMI (no PCU) cannot run this Adapter

## About MEMEX

The Industrial Internet of Things (IIoT) powered by machine to machine (M2M) connectivity coupled with software capable of collecting, analyzing, and intelligently presenting streams of manufacturing data represents no less than the next Industrial Revolution. MEMEX with its visionary attitude has been on the leading-edge of the convergence of the industry trends in Computing Power, Connectivity of Machines, Industry Standards, Advanced Software Technology, and Manufacturing Domain Expertise. Leading this transformation is MEMEX Inc., the developer of MERLIN, an award winning IIoT technology platform that delivers tangible increases in manufacturing productivity in Real-Time.

MEMEX, with its comprehensive understanding of the manufacturing industry, is the global leader in machine to machine connectivity solutions.

Committed to its mission of “Successfully transforming factories of today into factories of the future” and encouraged by the rapid adoption and success of MERLIN, MEMEX is relentlessly pursuing the development of increasingly innovative solutions suitable in the IIoT era. MEMEX envisions converting every machine into a node on the corporate network, thereby, creating visibility from shop-floor- to-top-floor.

MEMEX, with its deep commitment towards machine connectivity, offers solutions that are focused on finding hidden capacity by measuring and managing Real-Time data. This empowers MEMEX’s customers to effectively quantify and manage OEE, reduce costs and incorporate strategies for continuous lean improvement.



### PRODUCTIVITY

10%-50% average productivity increase



### PROFITS

20% + profit improvement based on just a 10% increase in OEE



### PAYBACK

payback in less than four months with an Internal Rate of Return (IRR) greater than 300%



### CONNECTIVITY

connects to any machine, old or new

Contact MEMEX to implement IIoT, Data-Driven Manufacturing now

**MERLIN**

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