

Siemens SINUMERIK 840D w/HMI Advanced MTConnect Adapter

Part Number: VA-SHA-1.3-0.0

Description: MTConnect Adapter for Siemens SINUMERK 840D Powerline CNCs, also those 840D sl (Solutionline) and 840Di CNCs with HMI Advanced software. This Adapter is for a single – channel CNC.

Device: Siemens PCU (Resident On Device)

Adapter OS: Windows XP SP1 and later

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

Data Items:

- Axes: Position (actual), Load
- Spindle: Speed, Load, Override (%), Direction, Mode (INDEX or SPINDLE)
- Feedrate: Actual and Commanded, Override (%), Rapid Override (%)
- Controller Mode, Execution Mode
- Program Name, Block, Line, Comment, Message
- Part Count, Path Position, 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 white background within an orange-bordered box.

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 PCU. Access to Service Mode is required for installation. Microsoft .Net Framework 1.1 must be installed on the PCU.

CNC IP address must be reserved.

SINUMERIK OA License (Siemens P/N 6FC5800-0AP02-0YB0) 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).

The following files may be required: AccVar.exe, MCVar.dll, EventListSvr.dll. Obtain from CNC's f:\mmc2\ folder and provide to TechSolve with order. Delivery of the Adapter may require these files.

To Note: - Windows NT based CNCs may not be able to support this Adapter family.

- Windows 95 based CNCs cannot have this Adapter applied (MMC standard software, version 4.03.xx - V5.x)

- Other resident 3rd party applications may inhibit or interfere with the function of the Adapter or the other applications. This issue may be exacerbated by older versions of NCU or PCU hardware and/or software.

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

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