

Advantech WebAccess/CNC

CNC Machine Networking Solution
for Intelligent Production



- Introduction
- Software Features
- Software Benefits
- Software Architecture
- Software Specifications

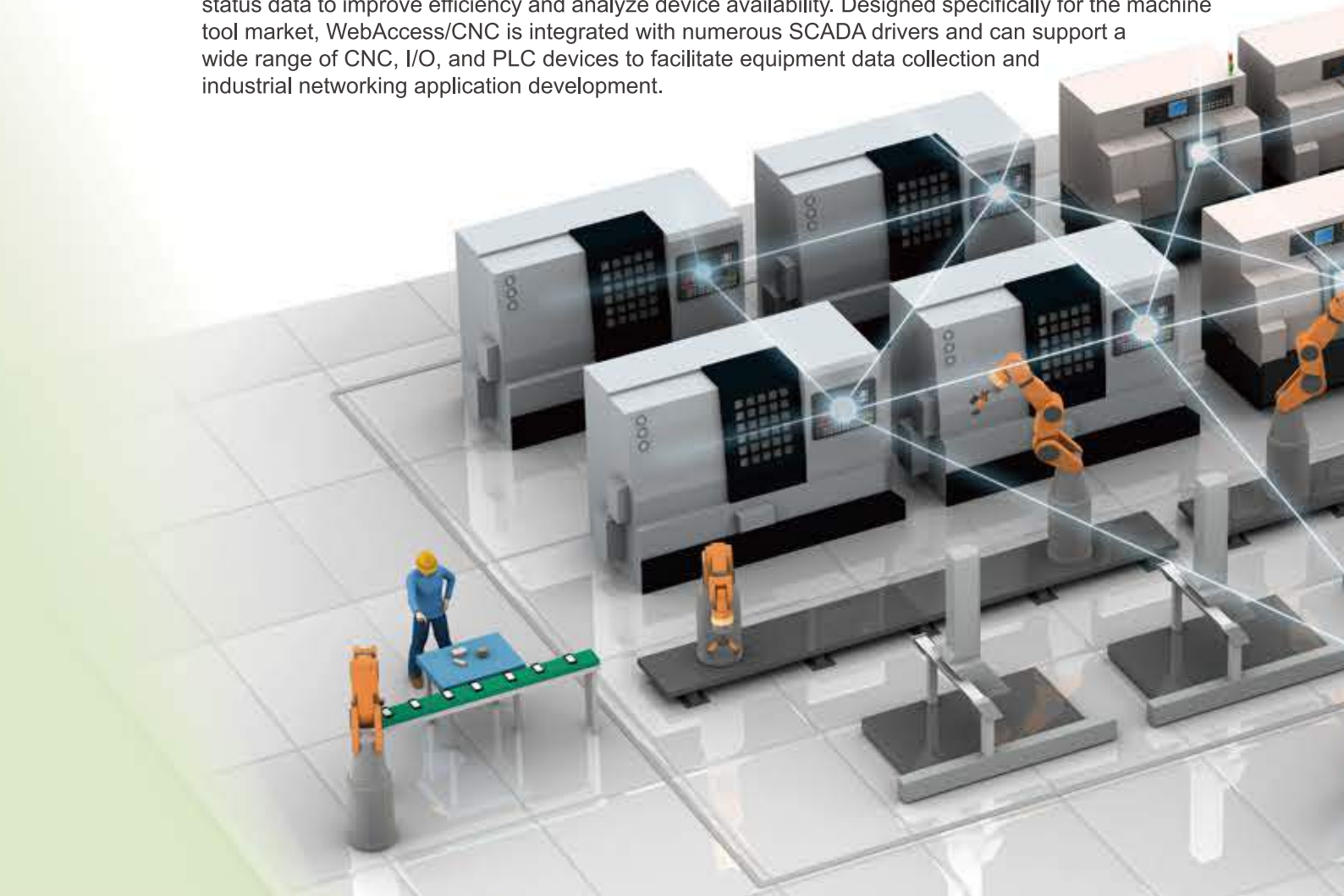
ADVANTECH

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WebAccess/CNC — A Networking Solution for CNC Machining

Advantech WebAccess/CNC is a core software solution for networking CNC machines. Leveraging the 100% web-based architecture of the WebAccess/SCADA platform, WebAccess/CNC provides not only crucial CNC networking functions, but also the benefits of SCADA software for CNC machining. With the inclusion of I/O device monitoring capabilities, WebAccess/CNC enables CNC information management and status visualization. Internet Explorer can be used to browse SCADA web pages and monitor/capture real-time CNC and production status data to improve efficiency and analyze device availability. Designed specifically for the machine tool market, WebAccess/CNC is integrated with numerous SCADA drivers and can support a wide range of CNC, I/O, and PLC devices to facilitate equipment data collection and industrial networking application development.



WebAccess/CNC Software Features



CNC Overview

Provides an overview of real-time connectivity, operating mode, CNC status, alarms, and machine availability data



CNC Information

Provides machine coordination, operation, G code, and spindle information



CNC Availability

Provides details of inquiries for improved efficiency

WebAccess



Automatically generate CNC projects

CNC machine and I/O device monitoring

Supports leading CNC network controllers

CNC machining status monitoring

CNC availability queries

NC file transfer function

Historical CNC alarm queries

Configuration and maintenance interface



Availability
Provides CNC availability during production



Alarm & Operations Data

Provides data of historical alarms and CNC operations to serve as a reference for machine maintenance



CNC Program Management

Features a transfer function for NC files and an edit interface for file programming



Parameter Management

Features a function for modifying the compensation parameters

Achieve cost-effective and rapid CNC networking

- Provides CNC network controller connectivity
- Supports Fanuc, Mitsubishi, Heidenhain, and Siemens CNC network controllers
- Automatically generates CNC projects, shortens project duration, and reduces the impact of ongoing production

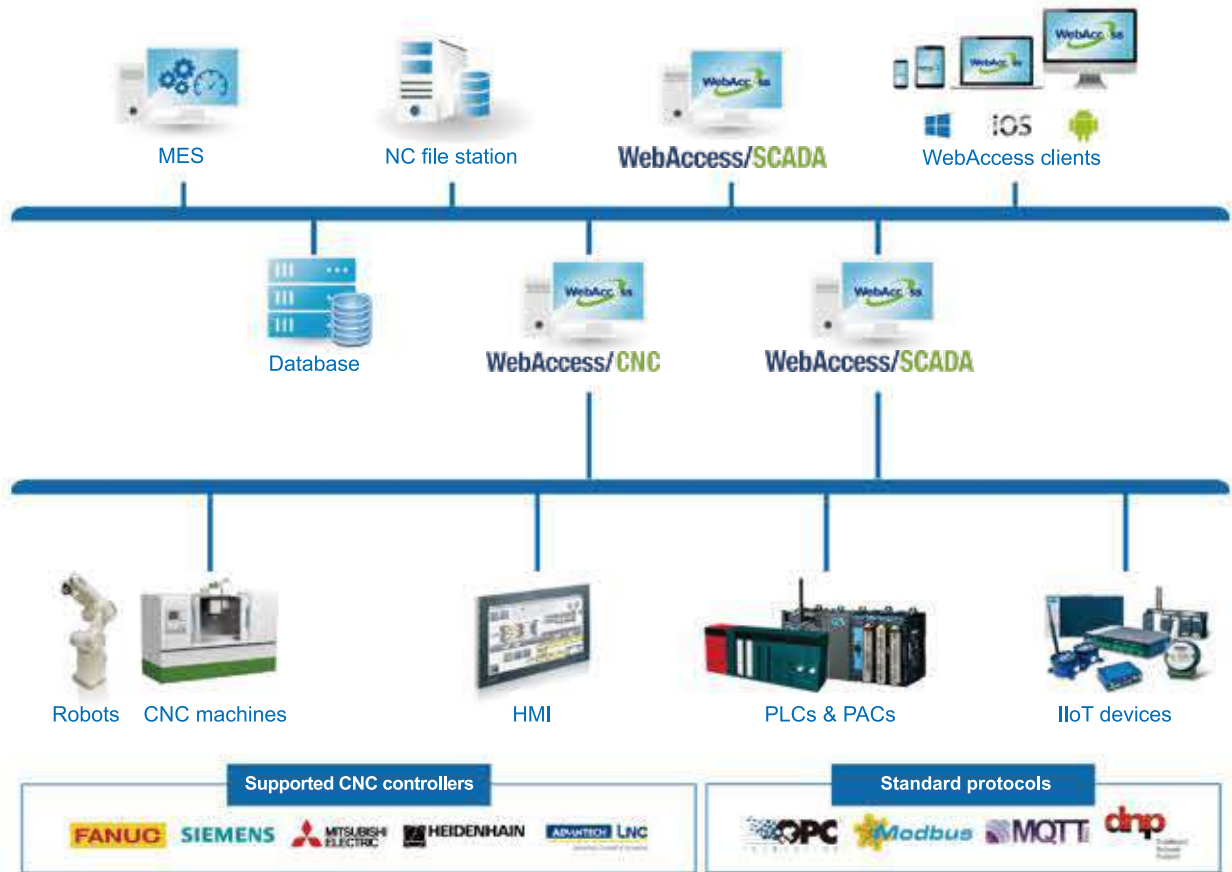
Open and user-friendly interface with SCADA functionalities

- 100% web-based WebAccess/SCADA architecture and functionality
- Provides a cross-platform HTML5-based dashboard also suitable for mobile devices
- Features diverse data exchange interfaces and English, Traditional Chinese, and Simplified Chinese language support

Improve production efficiency with equipment integration

- Connects PLCs, machines, and I/O devices using various protocols
- Offers automatic NC file transfer capabilities
- Monitors real-time CNC and production data to analyze device availability and improve efficiency

WebAccess/CNC Software Architecture



Configuration
Configuration interface for coordinate and tool parameters



Servo Spin
Enables real-time monitoring of spindle load to facilitate analysis of machine wear and damage



Maintenance
Features a maintenance configuration interface for conducting preventive machine maintenance

Advantech WebAccess/CNC

Number of CNC connections	5/10/20 (maximum of 20)	
Supported CNC controllers	Fanuc	0i-A/B/C/D/F, 16i, 18i, 21i, 31i, 32i
	Mitsubishi	M700/M70, M800/M80 series
	Heidenhain	iTNC 530
	Siemens	840D, 828D (OPC/UA license required)
	Advantech LNC	M/T 2800/2900/5800/6800/6900/7900 (*)
Number of built-in I/O tags	75	
Number of extensible tags	75/300/600/1500/5000	
Number of extensible CNC connections	5/10	
Web clients	1024	
Alarm logs	30000	
Action logs	30000	

(*) Advantech LNC controller connections are charged according to the number of I/O tags.

Web-Enabled Integration

IP camera video embedding	Yes
Google Maps and GPS location tracking	Yes

Open Connectivity

Modbus server	Yes
Web services	Yes
ODBC and SQL query	Yes
OPC DA/UA server	Yes
DDE server	Yes

Graphics

Number of graphics pages	Unlimited (limited by H/D size)
Variables per graphics pages	4000
Tag source	Global
Multi-touch gestures	Yes

Dashboard

Cross-browser/platform support	Yes
Built-in widgets	Yes
Open widget interface	Yes
Widget builder	Yes

Advanced Functionalities

Centralized project records	Yes (ODBC bindings for nodes)
Monitoring redundancy	Yes
Scripting language	Tcl/Visual Basic/Java
Data transfers	Yes
Excel reports	Yes
Device redundancy	Yes
IPv6 support	Yes
WebAccess Express	Yes

Ordering Information

Part Number	
WA-CNC-U005E	75 I/O tags, 5 CNC machine connections
WA-CNC-U010E	75 I/O tags, 10 CNC machine connections
WA-CNC-U020E	75 I/O tags, 20 CNC machine connections
WA-CNC-X005E	0 I/O tag, 5 CNC machine connections upgrade
WA-CNC-X010E	0 I/O tag, 10 CNC machine connections upgrade

I/O Tag Upgrades

WA-X82-U075E	75 tags upgrade
WA-X82-U300E	300 tags upgrade
WA-X82-U600E	600 tags upgrade
WA-X82-U15HE	1,500 tags upgrade
WA-X82-U50HE	5,000 tags upgrade

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