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Data Sheet

August 15, 2026

ADVANTECH

Advantech ADAM 5510EKW/TP 8-Slot Ethernet-Enabled SoftLogic Controller

Advantech Industrial Controllers & PLCs. Voltage / Current Range: 10–30 VDC input.



MODEL

**Advantech ADAM
5510EKW/TP**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**ADAM
5510EKW/TP**

LISTING

<https://aumictechlabs.com/products/adam-5510ekw-tp-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantech ADAM-5510EKW/TP is an 8-slot Ethernet-enabled SoftLogic controller purpose-built for industrial automation and real-time process control. It combines a 16-bit 80188 microprocessor with ROM-DOS operating system and ProConOS runtime engine to deliver deterministic IEC-61131-3 compliant programming across Ladder Diagram, Function Block Diagram, Sequential Function Chart, Structured Text, and Instruction List languages. Technical Specifications Processing & Memory CPU: 16-bit 80188 microprocessor Operating System: ROM-DOS with ProConOS runtime Flash Memory: 1.5 MB total (960 KB user application capacity) Flash ROM: 256 KB SRAM: 640 KB with 17–384 KB battery-backed retention User Program Storage: Up to 960 KB Connectivity & Communication Ethernet: 10/100Base-T RJ-45 Serial Ports: COM1 (RS-232/485), COM2 (RS-485), COM3 (RS-232 reserved), COM4 (RS-232/485) Baud Rates: 9600, 19200, 38400 bps up to 115.2 kbps Protocols: Modbus/RTU (Master/Slave), Modbus/TCP (Server/Client) RS-485 Nodes: Up to 31 per port; 256 in daisy-chain configuration I/O & Expansion

Expansion Slots: 8 I/O slots Maximum Local I/O: 128 points Module Support: Analog Input, Analog Output, Digital Input, Digital Output, Counter Function Blocks Module Family: ADAM-5000 series compatible System Reliability Watchdog Timer: OS, application, and communication watchdog types Real-time Clock: Yes Power Input: 10–30 VDC unregulated Power Consumption: 1.0 W (CPU only); 4 W @ 24 VDC without I/O modules Key Features Multi-language IEC-61131-3 programming via KW MULTIPROG® development environment Battery-backed SRAM for data retention during power loss Dual Modbus protocol support with TCP/IP and serial master/slave capability Mixed serial interfaces for legacy and modern fieldbus integration Wide DC input range (10–30 VDC) for flexible power delivery Typical Applications Manufacturing process automation, distributed control networks, remote monitoring systems, and legacy industrial equipment modernization requiring deterministic logic control with Ethernet connectivity. Compatibility & Integration Fully compatible with ADAM-5000 series modular I/O. Supports Modbus RTU over RS-232/485 and Modbus TCP over Ethernet for seamless integration with SCADA, HMI, and third-party control systems.

ADAM5510EKWTP Characteristics / Specifications

PARAMETER	VALUE
Model	ADAM-5510EKW/TP
Instrument Type	Ethernet-enabled softlogic programmable controller
Slot Count	8
Io Family	ADAM-5000 series modules
Communications	Ethernet TP
Controller Class	PC-based softlogic
Programming Class	IEC 61131-class softlogic
Manufacturer	Advantech
Mechanical Package	ADAM-5510 modular controller
Use Case	distributed industrial control
Network Medium	twisted-pair Ethernet
Backplane	ADAM-5000 I/O bus
Analog Modules	supported in ADAM-5000 analog slots
Digital Modules	supported in ADAM-5000 digital slots
Power	ADAM-5510 series controller supply
Operating Temperature Class	industrial ADAM-5000 family
Mounting	DIN-rail / panel ADAM-5510 chassis
Ethernet Connector	RJ-45 class TP
Cpu Class	embedded x86-class ADAM-5510 processor
Memory Class	onboard RAM/Flash for softlogic project
Watchdog Class	industrial controller watchdog
Isolation Class	ADAM-5000 module isolation as fitted
Protocol Class	Ethernet industrial communications
Expansion	8 module slots
Sibling Models	ADAM-5510 series without EKW/TP Ethernet

PARAMETER	VALUE
Operating temperature	Class: industrial ADAM-5000 family

ADAM5510EKWTP Specifications

PARAMETER	VALUE
Applications	Distributed machine and process control using ADAM-5000 I/O modules with Ethernet to a SCADA or PLC network.
Key Features	Eight I/O slots for ADAM-5000 modules
Technical Specifications	Model: ADAM-5510EKW/TP

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: industrial ADAM-5000 family
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Operating Temperature Class	industrial ADAM-5000 family
Mounting	DIN-rail / panel ADAM-5510 chassis
Ethernet Connector	RJ-45 class TP
Cpu Class	embedded x86-class ADAM-5510 processor
Memory Class	onboard RAM/Flash for softlogic project
Watchdog Class	industrial controller watchdog
Isolation Class	ADAM-5000 module isolation as fitted
Protocol Class	Ethernet industrial communications
Expansion	8 module slots
Sibling Models	ADAM-5510 series without EKW/TP Ethernet Notes From Advantech ADAM-5510EKW/TP 8-slot Ethernet-enabled softlogic controller product identification and ADAM-5510/5000 family architecture. Exact CPU clock, Ethernet rate, and power draw are on the ADAM-5510EKW datasheet matching the build.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	ADAM-5510EKW/TP
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Analog Modules	supported in ADAM-5000 analog slots
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Operating Temperature Class	industrial ADAM-5000 family
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Protocol Class	Ethernet industrial communications
Expansion	8 module slots
Sibling Models	ADAM-5510 series without EKW/TP Ethernet

Notes

From Advantech ADAM-5510EKW/TP 8-slot Ethernet-enabled softlogic controller product identification and ADAM-5510/5000 family architecture. Exact CPU clock, Ethernet rate, and power draw are on the ADAM-5510EKW datasheet matching the build.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.