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Data Sheet

August 15, 2026

CURTISS-WRIGHT / ACRA CONTROL

Curtiss-Wright / ACRA Control KAM/CHS/13U/E/00 13 User-Slot KAM-500 Chassis

The Curtiss-Wright / ACRA Control KAM/CHS/13U/E/00 is a 13-slot chassis purpose-built for the KAM-500 data acquisition system. It combines an integrated power supply module with an 8 MHz x 16-bit digital backplane to create a flexible, modular platform for signal conditioning and data acquisition in aerospace and industrial environments. The chassis accepts up to 13 user-installable modules in any slot combination, with polarized connectors ensuring correct insertion and proper distribution of power, address, data, and control signals. Backplane: 8 MHz x 16-bit digital architecture with demultiplexer-based module selection Dimensions: 280 mm L × 80 mm W × 98.5 mm H (module retention screws and ground bolt included) Mass: 1.5 to 1.9 kg (power supply included, modules excluded); ±200g for variations



MODEL

**Curtiss-Wright /
ACRA Control
KAM/CHS/13U/E/00**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

KAM/CHS/13U/E/00

LISTING

[https://aumictechlabs.
com/products/kam-ch
s-13u-e-00-2/](https://aumictechlabs.com/products/kam-chs-13u-e-00-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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x 16-bit digital backplane to create a flexible, modular platform for signal conditioning and data acquisition in aerospace and industrial environments. The chassis accepts up to 13 user-installable modules in any slot combination, with polarized connectors ensuring correct insertion and proper distribution of power, address, data, and control signals.

Technical Specifications

Backplane: 8 MHz x 16-bit digital architecture with demultiplexer-based module selection

Input Power: 18 to 40 VDC (isolated), 28V isolated nominal output

Internal Supplies: +12V and -12V with 2.0A bridge excitation capacity

Dimensions: 280 mm L × 80 mm W × 98.5 mm H (module retention screws and ground bolt included)

Mass: 1.5 to 1.9 kg (power supply included, modules excluded); ±200g for variations

Chassis Material: Aluminum alloy 6082-T6 (DIN AlMgSi1), electroless nickel-plated

Finish: REINORANGE RAL2004 (top); GRIGIO SCURO OPACO C604 black (base/sides/ends)

Operating Temperature: -40 to +85 °C (chassis base/side plate)

Storage Temperature: -55 to +125 °C

Qualification: MIL-STD-810, MIL-STD-461, DO-160

Indicator: LED power-on status

Key Features

- Thirteen user-installable slots with polarized connectors for positional assurance
- Minimal integrated-circuit backplane design using demultiplexer architecture
- Any module placement in any slot without configuration restrictions
- Distributed system capability: operates as master or slave node
- Isolated power input with dual ±12V internal regulation

Typical Applications

- Aerospace instrumentation and data logging
- Industrial process monitoring and control
- High-reliability signal conditioning systems
- Multi-channel sensor acquisition platforms

Compatibility & Integration

Designed exclusively for KAM-500 systems. Accommodates user modules across all 13 slots simultaneously. Backplane distributes +28V, address, data, and control lines to all connected modules. Supports networked configurations via master/slave operation.

KAMCHS13UE00 Characteristics / Specifications

PARAMETER	VALUE
Model	KAM/CHS/13U/E/00
Instrument Type	KAM-500 data acquisition chassis
User Slots	13
Housing	rugged aluminum
Input Voltage	18 to 40 VDC isolated
Nominal Input	28 VDC
Backplane	8 MHz x 16-bit digital
Bridge Excitation	2.0 A available
Backplane Ics	demultiplexers for user-module select only
Slot Polarization	prevents insertion of the backplane controller in a user slot
Distributed Mode	master or slave in a distributed system
Power Led	power-on indicator
Revision D Plus 5 V	4 A on plus 5 V (D design)
Revision E Plus 5 V	5 A on plus 5 V (E design / E/00)
Family	Acra KAM-500
Related Six Slot	KAM/CHS/06U six user slots same PSU and backplane class
Related Controller	KAD/BCU/105 Ethernet backplane controller
Manufacturer	Curtiss-Wright / ACRA Control
Application Class	flight test instrumentation DAU
Module Mix	any user-module in any user-slot in any combination
Power Module	included PSU regulates backplane rails
Product Category	data acquisition chassis
Heat Sink Accessory	ACC/HSK/001/13U heat sinks listed with some 13U units
Conformal Variant	KAM/CHS/13U/E/00 is the E-revision 00 product code

KAMCHS13UE00 Specifications

PARAMETER	VALUE
Applications	Flight-test instrumentation, space, and distributed KAM-500 data acquisition with thirteen user modules plus a backplane controller.
Thirteen polarized user slots plus PSU	18 to 40 VDC isolated 28 V nominal
Technical Specifications	Model: KAM/CHS/13U/E/00

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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Notes

From Curtiss-Wright/ACRA KAM/CHS/13U product literature and E/00 revision note (plus 5 V raised to 5 A).
ConfirmDversusEPSU current and installed backplane controller.

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

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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.