DT5423

Quad Linear Desktop Power distributor for A1422 Preamplifiers and DT57xx Digitizers

Desktop	Pre-Amp: 4 Digitizer: 1	+12 V / 400 mA -12 V / 200 mA
Package	No. of Channels	Pre-Amp Supply

The CAEN **Mod. DT5423** is a linear desktop power supply that powers both the front-end and the acquisition stage of a compact setup. It can supply up to four A1422 or A1424 preamplifiers and, at the same time, a digitizer of the DT57xx desktop family.

The preamplifiers connect through four standard 9-pin D-type (D-Sub9) female connectors. Each connector provides the ±12 V rails they need. A dedicated plug connector supplies the digitizer with +12 V through a 6-pin Shielded Miniature Circular DIN connector. Every output is filtered, so ripple stays below 5 mVpp on the preamplifier supplies and below 10 mVpp on the digitizer supply.

The kit includes a 1.5 m cable that connects the Digitizer Supply output to the 2.1 mm DC power jack of DT57xx desktop digitizers. For pinout and other technical details on the D-Sub9 connector, see our connectors reference page.

Product Highlights

- Four DB9 connectors (±12 V) to supply A1422 Preamplifiers
- One plug connector to supply DT57xx family desktop digitizers
- Ripple: < 5 mVpp on preamplifier power supplies; < 10 mVpp on digitizer power supply

CAEN
Tools for Discovery

Technical Specifications

Mechanical Packaging	Desktop module (154 x 50 x 164 mm^3). Weight 1.65kg
PreAmp 1,2,3,4	
• +12 V / 400 mA (max total for 4 output) • -12V / 200 mA (max total for 4 output) • 4 Sub D9 female connectors	
Digitizer Supply	• +12V / 2.1 A • TE Connectivity type 5750071-1 Shielded Mini Circular DIN Connector 6MINI-DIN
Noise performance	• ±12V OUT on PreAmp 1÷4 connectors: ripple 5 mVpp • +12V OUT on Digitizer Supply connector: ripple 10 mVpp
Measurement conditions	20 MHz bandwidth limited oscilloscope, AC-coupled, capacitive load 10 nF on OUT in measurement, OUT at full load (400 mA total on + 12V OUT on PreAmp 1÷4 connectors; 200 mA total on – 12V OUT on Preamp 1÷4 connectors; 2.1 A on + 12V Digitizer Supply connector).
Input	230V ~ 50Hz or 115V ~ 60Hz; C14 Type Inlet (Fused)
Fuse	230 V: T500 mA; 110 V: T1A 5 x 20 mm
GND	
• ±12V power supply return • Industrial Terminal for 4mm plug and wire • connection up to 2mm Ø (black)	
EARTH	
• Mains EARTH • Industrial Terminal for 4mm plug and wire connection up to 2mm Ø (yellow)	

Ordering Information

ORDERING CODE	DESCRIPTION
WDT5423XAAAA	DT5423 – Desktop Linear Power Supply for A1422-A1424 Preamplifiers & DT57xx Digitizers

Related Products

A1422 — Low-Noise Fast-Rise-Time Charge-Sensitive Preamplifiers (Boxed)

A1424 — Scintillation Preamplifier

DT5720 — 4/2 Input Channel 12bit 250 MS/s Digitizer

DT5724 — 4/2 Input Channel 14 bit 100 MS/s Digitizer

DT5740 — 32 Input Channel 12 bit 62.5MS/s Digitizer

DT5742 — 16+1 Channel 12 bit 5 GS/s Switched Capacitor Digitizer

DT5751 — 2/4 Input Channel 10 bit 2/1 GS/s Digitizer

DT5761 — 1 Input Channel 10 bit 4 GS/s Digitizer

 — © 2026 CAEN S.p.A. All rights reserved. Specifications are subject to change without notice.