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Data Sheet

August 2, 2026

KEITHLEY

Keithley 3706A-SNFP Data Acquisition System

Keithley 3706A-SNFP Data Acquisition System The Keithley 3706A-SNFP (3706ASNFP) is a six-slot system switch mainframe without an integrated DMM and without a front-panel display or keypad—remote operation only. When fully loaded with multiplexer cards, it supports up to 576 two-wire multiplexer channels or 720 one-wire multiplexer channels in a compact 2U rack enclosure. Remote control is via GPIB, USB (TMC), and LAN (LXI). Embedded Test Script Processor (TSP) scripting and TSP-Link system expansion are supported. Distinct from 3706A (switch with DMM and front panel), 3706A-S (switch only with panel), and 3706A-NFP (DMM without panel). The Keithley 3706A-SNFP (3706ASNFP) is a six-slot system switch mainframe without an integrated DMM and without a front-panel display or keypad—remote operation only. When fully loaded with multiplexer cards, it supports up to 576 two-wire multiplexer channels or 720 one-wire multiplexer channels in a compact 2U rack enclosure. Remote control is via GPIB, USB (TMC), and LAN (LXI). Embedded Test Script Processor (TSP) scripting and TSP-Link system expansion are supported. Distinct from 3706A (switch with DMM and front panel), 3706A-S (switch only with panel), and 3706A-NFP (DMM without panel). High channel-count switching in rack ATE without local front-panel operation; pattern switching and scanning controlled over LXI/GPIB/USB; system expansion via TSP-Lin

No photo

MODEL

Keithley 3706A-SNFP

CALIBRATION

N/A — off-catalog OEM datasheet

CONDITION

See OEM documentation

STATUS

Not listed on Aumictech inventory

RFQ / SKU

3706A-SNFP

LISTING

Off-catalog — OEM datasheet only

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Six-slot system switch mainframe
- No integrated DMM (switch only)
- No front panel–remote control only
- Up to 576 two-wire multiplexer channels (fully loaded)
- Up to 720 one-wire multiplexer channels
- Up to 2,688 one-pole matrix crosspoints (matrix card config)
- GPIB, USB (TMC), and LAN (LXI) interfaces
- TSP scripting; TSP-Link master/slave expansion
- 2U full-rack enclosure
- 3700A-series plug-in switch/control cards

3706ASNFP Characteristics / Specifications

PARAMETER	VALUE
Model	3706A-SNFP (3706ASNFP)
Manufacturer	Keithley (Tektronix/Keithley)
Instrument Type	System switch mainframe (no DMM, no front panel)
Mainframe Slots	6
Form Factor	2U rack (about 89 mm × 483 mm × 457 mm)
Max Multiplexer Channels	up to 576 two-wire; up to 720 one-wire (fully loaded)
Max Matrix Crosspoints	up to 2,688 one-pole (matrix configuration)
DMM	not included
Front Panel	none (remote only)
Remote Interfaces	GPIB; USB (TMC); LAN (LXI)
Scripting	TSP; TSP-Link
Related Configurations	3706A (DMM + panel); 3706A-S (switch + panel); 3706A-NFP (DMM, no panel)

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

Specifications

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Front Panel	none (remote only)
Remote Interfaces	GPIB; USB (TMC); LAN (LXI)
Scripting	TSP; TSP-Link
Related Configurations	3706A (DMM + panel); 3706A-S (switch + panel); 3706A-NFP (DMM, no panel)

Plug-in Cards: 3720, 3721, 3722, 3723, 3724, 3730, 3731, 3732, 3740, 3750 class

Standard Operating Conditions

Configure and operate exclusively via remote interface or web interface. Populate with compatible 3700A-series cards for the required topology. Observe per-card voltage/current switching limits.

Operational Notes

3706A-SNFP is switch-only and headless-plan for external measurement instrumentation if DMM capability is required. Confirm card mix (multiplexer vs matrix vs control) against channel-count goals. Optional 7.5-digit DMM is available on other 3706A variants, not in SNFP.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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.