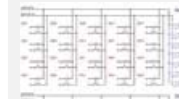# Series 3700A

30–SECOND SELL

"**The 3700A system switch/multimeter** combines a high precision DMM integrated with instrument grade switching. Its six card slots maximize channel density and with the low noise, high resolution multimeter create a tightly integrated measurement system that can meet the demanding application requirements of any functional test system."

PRODUCT HIGHLIGHTS

- Mainframe variations (DMM and keypad/display optional)
- High performance (1 Ohm resistance, 10µA DCI range) 7.5 Digit multimeter
- High density switching (Up to 720 one-wire multiplexer channels, 2,688 one-wire matrix crosspoints)
- TSP control and TSP-Link for Intelligent distributed control
- Embedded startup/control software

Use the built-in web server interface to configure the system, build and run an automated scan list, and analyze data.

Model 3706A-NFP eliminates keypad and display for automated test rack applications.

MODEL (MAINFRAME)	STOCK CODE	DMM	FRONT PANEL KEYPAD & DISPLAY	RESOLUTION (DIGITS), ACCURACY	INTERFACE
3706A	2075030	Yes	Yes	7½ Digits, 0.0025%	GPIB, LAN (LXI), USB-TMC, TSP-Link® Channel Expansion Bus
3706A-S	2131294	No	Yes	NA	GPIB, LAN (LXI), USB-TMC, TSP-Link® Channel Expansion Bus
3706A-NFP	NIC	Yes	No	7½ Digits, 0.0025%	GPIB, LAN (LXI), USB-TMC, TSP-Link® Channel Expansion Bus
3706A-SNFP	2131295	No	No	NA	GPIB, LAN (LXI), USB-TMC, TSP-Link® Channel Expansion Bus

Series 3700A

PLUG–IN CARDS

3720	Dual 1x30 Multiplexer: 300V, 2A, Auto-CJC with 3720-ST accessory	2074754
3721	Dual 1x20 Multiplexer: 300V, 3A, Auto-CJC with 3721-ST accessory	2074755
3722	Dual 1x48 Multiplexer: 300V, 2A	2074756
3723	Dual 1x30 Multiplexer: 200V, 1.25A, Reed Relay	2131263
3724	Dual 1x30 Multiplexer: 200V, 0.12A, Solid State Relay, Auto-CJC with 3724-ST accessory	2131264
3730	6x16 Matrix: 300V, 2A	2074757
3731	6x16 Matrix: 200V, 2A, Reed Relay	2131265
3732	Quad 4x28 Matrix: 200V, 1.2A, Reed Relay	2131266
3740	Independent Relay: 28 Form C: 300V, 3A; 4 Form A: 250VAC, 7A	2131267
3750	Control: 40 Digital I/O 2 Analog Outputs, 4 Counter	2131268

RECOMMENDED ACCESSORIES

3706-BAN	DMM Adapter Cable	2131272
3706-TLK	Test Lead Kit	2131297
KUSB-488B	IEEE-488 USB to GPIB Interface Adapter	2077471
4288-1	Single Fixed Rack Mount Kit	2131276
4288-10	Fixed Rear Rack Mount Kit	2131275

SHIPS WITH PRODUCT

- Test Script Builder Software Suite CD
- Series 3700A Product CD (Includes LabVIEW, IVI C, and IVI.COM Drivers)
- Ethernet Crossover Cable
- Calibration Certificate
- Quick Reference Manual
- Power Cord
- 1-year Warranty

ANOTHER PRODUCT FOR CONSIDERATION

For sourcing consider **Series 2600B** SourceMeter® SMU instruments.

See page 78

TOOLS FOR THE CUSTOMER

📄 Data Sheet

3 Reasons to Buy this Product

① The Series 3700A combines Keithley's highest performing DMM enabling best in class noise performance with fast measurement speeds of 14K reading/sec and scanning rates greater than 1250 channels/second.

② Series 3700A mainframes come standard with the most common communication interfaces, including GPIB, USB, and LXI-Ethernet communications. In addition, four mainframe choices are provided, allowing users the maximum flexibility and cost-efficiency.

③ Ten card options are provided, offering a mix of multiplexer, matrix, and independent switching. In addition, all cards come standard with D-sub connectors along with options for terminal block connections.