

AX500

Integrated 5 Slot AXIe System

AEROFLEX
A passion for performance.



High Performance AXIe Digital/DC Subsystem

The AX500 is the industry's first self-contained test system based on the AXIe standard. It provides all of the power, cooling, and device loadboard interfacing required for up to 5 AXIe instrument cards. The AX500 can be used as a standalone test system or as a rack mountable subsystem upgrade for existing test systems. Device loadboards use high-density direct connections to the AXIe instrument cards and can easily be interchanged as required for different devices.

- Fully integrated, self-contained bench-top or 19" rack mountable test system based on industry standard AXIe.
- System can be used for device characterization as well as production testing.
- 5 AXIe slots support Aeroflex digital and device power supply AXIe instruments

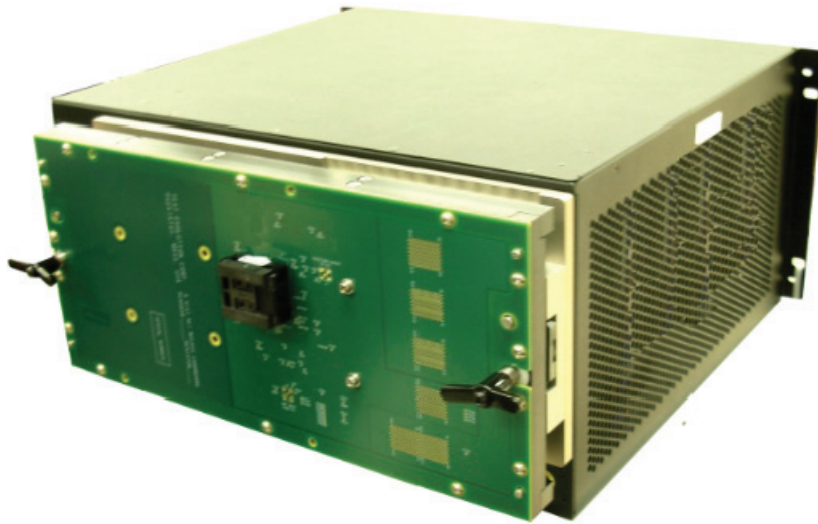
Compatible with a wide range of 3rd party AXIe instrument cards.

- Flexible bi-directional triggering between AXIe and external instruments for control and synchronization.
- Easily interchangeable device load boards access all AXIe instrument signals.

- Integrated Cage Interface card
- Configurable with:
 - 48, 96, 144, or 192 channels of 400 Mbit digital
 - 12, 24, 36 or 48 channels of 22 V/1.2 A power supplies
- Optional Windows® PC-based controller with test environment software:
 - Microsoft® Visual Studio®
 - National Instruments TestStand™
 - Semiconductor Test Executive

For full details refer to the DD48 and DPS12 instrument card specifications

For the very latest specifications visit www.aeroflex.com



SOFTWARE ENVIRONMENT

System Software

- MVP (Multi-site Virtual Pin) instrument programming
- Standardized instrument APIs in C
- National Instruments TestStand™ for test sequencing and flow control
- Program development and debug via Microsoft® Visual Studio®
- Production interface for datalog, binning and prober/handler control

Instrument Software Tools Include:

- Instrument debug display
- Pinmap editor
- Pattern debugger
- Margin tool
- Shmoo tool

Calibration and Checkers

- Configurable checker load board
- Multi-level diagnostics: i/o connect/functionality/calibration/verification
- Software notification and lock-out to ensure instrument calibration
- System DMM for instrument DC calibration

SYSTEM HARDWARE

Cage Interface

- Load board power +5 VDC, ± 15 VDC
- 32 control bits
- Trigger subsystem
- I2C for expansion

Interchangeable Load Boards

- Standard Dimensions: 7.125 x 15.375 in. (181 x 391 mm) (H x W)
- VHDM connectors for AXIe signals
- Manual threaded pull down mechanism

Production Interfaces

- Benchtop or engineering stand for lab use
- 19 in. rack mountable

Minimum PC requirements

- | | |
|----------------|-------------------------------|
| • Mother board | Intel DQ77MK uATX motherboard |
| • CPU | i7-3770 |
| • HDD | 500G |
| • Memory | 4G |
| • OS | Win 7/32 |

SITE PREPARATION

Dimensions

Height:	222 mm	8.8 in.
Depth:	38.9 mm	15.3 in.
	424 mm	16.7 in. with testhead
	454 mm	17.9 in. with testhead + loadboard
Width:	441 mm	17.4 in.

Weight

Weight:	32 kg	70 lbs. (typical configuration)
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Environmental

Ambient Temperature:	20°C to 30°C
Humidity:	30% to 60% relative humidity

Power Requirements

Tester Chassis:	120 VAC / 15 A / 50-60 Hz, Single phase
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Tester Computer, Monitor, DMM:	120 VAC / 15A / 50-60 Hz, Single phase
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ORDERING INFORMATION

Order as AX500

Supplied with:

3m Coaxial Cable (for interfacing with a desktop PC fitted with a PCI/PCIe interface card)

CDROM with software and documentation

Options:

Option Description

30	PC Controller (inclusive of monitor, keyboard & pointer)
31	PC Controller with TTL Probe Handler
32	PC Controller with GPIB Probe Handler
33	PC Controller with TTL & GPIB Probe Handler
51	12 x 22 VDC/1.2A channels
52	24 x 22 VDC/1.2A channels
53	36 x 22 VDC/1.2A channels
54	48 x 22 VDC/1.2A channels
61	48 x 400 Mbit digital channels
62	96 x 400 Mbit digital channels
63	144 x 400 Mbit digital channels
64	192 x 400 Mbit digital channels

Retrofit Options

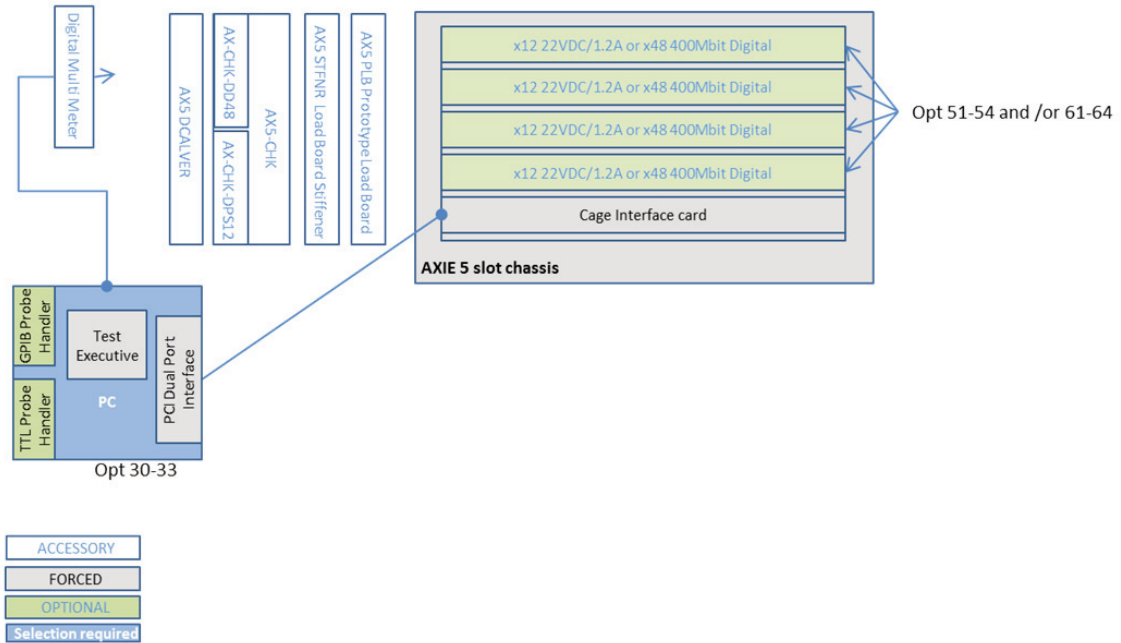
Option	Description
RTROPT51AX	12 x 22 V/1.2A DC channels
RTROPT61AX	48 x 400 Mbps channels

Accessories:

Part Number Description

Calibration Accessories

AX-DMM	Digital Multi Meter
AX5-DCALVER	Digital Cal and Verify Load Board
AX5-CHK	5 Slot Checker Load Board
AX-CHK-DD48	Chicklet for DD48 "Test Adapter for x48 400 Mbit Digital Channels"
AX-CHK-DPS12	Chicklet for DPS12 "Test Adapter for x12 22V DC Channels"
AX5-PLB	Prototype Load Board
AX5-STIFNR	Load Board Stiffener



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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.