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Data Sheet

August 15, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology SMP1100 Single-Slot Base Unit

Ametek / VTI Instruments / VXI Technology SMP1100 Single-Slot SMIPII Switch Base Unit The Ametek / VTI Instruments / VXI Technology SMP1100 is a single-slot VXIbus SMIPII base unit that houses up to two high-density switch modules. Modules for power, general purpose, multiplexers, matrices, RF, and relay drivers may be mixed. Front-panel removable switch modules support field maintenance. With an SMP1200 companion, a 1 × 768 one-wire multiplexer can be built in two slots; the SMP1100 itself focuses on two-module single-slot density. The Ametek / VTI Instruments / VXI Technology SMP1100 is a single-slot VXIbus SMIPII base unit that houses up to two high-density switch modules. Modules for power, general purpose, multiplexers, matrices, RF, and relay drivers may be mixed. Front-panel removable switch modules support field maintenance. With an SMP1200 companion, a 1 × 768 one-wire multiplexer can be built in two slots; the SMP1100 itself focuses on two-module single-slot density. ATE signal switching, mixed RF and power routing, and modular VXIbus switch systems requiring field-replaceable switch cards.



MODEL

**Ametek / VTI
Instruments / VXI
Technology
SMP1100**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SMP1100

LISTING

<https://aumictechlabs.com/products/smp1100-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek/VTI Instruments/VXI Technology SMP1100 is a single-slot base unit that supplies power and thermal management for VXI and PXI instrument modules. It delivers 5 VDC at up to 20 A (100 W maximum) from a universal 100–240 VAC input, with inrush current limiting built in. The variable-speed, thermally controlled fan maintains stable operating conditions in the chassis, while VXIplug&play compliance and PXI trigger bus support enable integrated test system operation across standard instrumentation platforms.

Technical Specifications

Power Supply
Output voltage: 5 VDC Output current: 20 A Maximum power: 100 W Input voltage: 100–240 VAC, 50/60 Hz Inrush current limiting: Standard Thermal Management Fan control: Variable speed, thermally controlled Operating temperature: 0°C to 50°C Storage temperature: –40°C to 70°C Operating humidity: 10% to 90% non-condensing Interfaces VXIbus: VXIplug&play compliant PXI trigger bus: Supported Status indication: Power, fault, and fan operation LEDs Remote sense: Included for accurate voltage regulation Physical Form factor: Single-slot VXI/PXI module Weight: Approximately 1.5 kg

Key Features Universal AC input (100–240 VAC, 50/60 Hz) eliminates regional power supply concerns Integrated inrush current protection extends component life Remote sense provision ensures voltage accuracy at the load Thermally controlled fan adapts to thermal load, reducing noise during light-load operation Status LEDs provide at-a-glance power and fault visibility

Typical Applications Standalone instrument power and cooling in single-slot VXI systems Modular test systems requiring distributed power architecture Laboratory and production environments with standard chassis infrastructure

Compatibility & Integration The SMP1100 integrates into standard VXI and PXI chassis and supports any single-slot instrument module drawing up to 100 W. VXIplug&play compliance and PXI trigger bus connectivity enable straightforward integration into multi-module test configurations.

SMP1100 Characteristics / Specifications

PARAMETER	VALUE
Model	SMP1100
Instrument Type	single-slot SMIPII switch base unit
Bus Standard	VXIbus C-size class switching base
Slot Width	single slot
Switch Modules Supported	up to 2
Module Removability	front panel removable
Family Name	SMIPII
Switch Classes Supported	Power General Purpose Multiplexers Matrices RF Relay Drivers Loads Digital I/O
Companion Double Slot Base	SMP1200
Mux Example Family Max	1 × 768 one-wire in SMP1200 double slot
Frequency Class	DC to RF family switching
Configuration Steps	base then modules then mating connectors
Maintainability	field upgrades via removable modules
Product Series	SMP1xxx
Platform	VXIbus modular instruments
Carrier Role	houses plug-in switch daughter modules
Mix Match	different switch module types allowed together
Density Focus	high density modular switching
Mating Connectors	selected per installed switch modules
Family Alias	SMIP II
Base Unit Family	SMP1100 and SMP1200
Module Role	plug-in switch or I/O daughtercard
Field Service	front removable modules on bases
Mix Capability	power GP mux matrix RF driver modules

SMP1100 Specifications

PARAMETER	VALUE
Part of SMIPII modular switching family	Pairs with SMP1200 for higher density systems
Technical Specifications	Model: SMP1100
Notes	From VTI Instruments SMP1100/1200 datasheet overview. Electrical limits are those of the installed daughter switch modules.

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	
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switch modules.

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.