


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U2652A

Agilent Keysight U2652A USB Modular Isolated Digital I/O The Agilent/Keysight U2652A isaU2600A Series USB 2.0 isolated digital I/O module. OEM data sheet 5991-0665EN lists 64-bit isolated DI and None (input-only model) isolated DO, 1250 Vpeak transient isolation, and 10 to 24 V industrial input levels. Industrial automation driving relays, actuators, and valves, plus education labs needing optoisolated USB DIO. Optoisolated lines for PC protection from industrial transients The Agilent/Keysight U2652A isaU2600A Series USB 2.0 isolated digital I/O module. OEM data sheet 5991-0665EN lists 64-bit isolated DI and None (input-only model) isolated DO, 1250 Vpeak transient isolation, and 10 to 24 V industrial input levels. Industrial automation driving relays, actuators, and valves, plus education labs needing optoisolated USB DIO. Optoisolated lines for PC protection from industrial transients Virtual Port grouping for simultaneous multi-bit emergency-stop class control



MODEL

**Agilent / Keysight
U2652A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U2652A

LISTING

<https://aumictechlabs.com/products/u2652a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U2652A is a USB modular digital input module delivering 64 opto-isolated digital input channels for industrial automation and control applications. It connects to a host PC via high-speed USB 2.0 (480 Mbps) using the USBTMC-USB488 standard, functioning as a standalone unit or as part of a modular system. The module provides 1250 Vrms peak transient voltage protection and includes an on-board isolated power supply delivering +5 V at 150 mA

typical. Technical Specifications 64 opto-isolated digital input channels Input voltage range: 10 to 24 V External supply voltage: 5 to 35 V On-board isolated power supply: +5 V typical at 150 mA typical Isolation protection: 1250 Vrms peak transient voltage USB interface: High-speed USB 2.0 (480 Mbps), USBTMC-USB488 standard IO connector: 100-pin SCSI-II Dimensions (with casing): 120.00 mm × 182.40 mm × 44.00 mm (W × D × H) Dimensions (without casing): 105.00 mm × 174.54 mm × 25.00 mm (W × D × H) Weight (with casing): 565 g Weight (without casing): 370 g Operating temperature: 0 to +55 °C Storage temperature: -20 to +70 °C Relative humidity: 15% to 85% at 40 °C (non-condensing) Maximum altitude: 2000 m Key Features Interrupt function for automatic state-change detection Virtual port grouping capability Opto-isolation for enhanced system protection and circuit separation Modular design supporting standalone or integrated deployment Typical Applications Industrial automation and control systems requiring high-density digital input monitoring with galvanic isolation. Compatibility & Integration Supports Keysight VEE, MATLAB® R2007a, NI LabVIEW, Microsoft® Visual Studio®, SCPI, and IVI-COM. Includes BenchVue software license (BV0025B). Compatible with Microsoft® Windows® operating systems. Tested to IEC/EN 60068-2 (shock and vibration) with EMC compliance per IEC 61326-1:2002/EN 61326-1:1997+A2:2001+A3:2003.

U2652A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	USB modular isolated digital I/O device
Series Family	Keysight U2600A
Digital Input Bits	64-bit
Digital Output Bits	None (input-only model)
Input Type	opto-isolated
Maximum Input Voltage	24 V non-polarity referenced to DI COM
Digital Logic High	10 to 24 V
Digital Logic Low	0 to 2 V
Input Resistance	24 kOhm at 0.75 W
Input Current Maximum	1.5 mA per bit maximum
Maximum Transient Voltage	1250 Vpeak
Output Type	not applicable (no DO bits)
External Supply Voltage Range	not applicable
Mosfet Voltage Drop On	not applicable
Output Sink Current Per Bit	not applicable
Onboard Isolated Supply Voltage	not applicable (no onboard isolated 5 V on DI-only model)
Onboard Isolated Supply Current	not applicable
Onboard Isolated Supply Power	not applicable
Remote Interface	Hi-Speed USB 2.0 (480 Mbps); USBTMC-USB488
SCPI IVI Support	SCPI and IVI-COM
Connector Type	100-pin SCSI-II
Power Requirement	plus 12 VDC typical; 2 A maximum input rated current Installation Category II
Power Consumption Maximum Family	plus 12 VDC, 260 mA maximum
Power Consumption Model	plus 12 V at 115 mA typical
Typical Supply Current	115 mA typical at plus 12 V

PARAMETER	VALUE
Operating Temperature	0 to plus 55 C
Operating Humidity	15 to 85 percent RH at 40 C non-condensing
Storage Temperature	minus 20 C to 70 C
Altitude	up to 2000 m
Dimensions With Casing	120.00 mm x 182.40 mm x 44.00 mm
Dimensions Without Casing	105.00 mm x 174.54 mm x 25.00 mm
Weight With Casing	565 g
Weight Without Casing	370 g
Shock Vibration	tested to IEC/EN 60068-2
Virtual Port Grouping	any eight bits grouped into one virtual port
Interrupt Function	DI_101.0/301 and DI_101.1/302
Chassis Option	U2781A USB modular product chassis
Pollution Degree	2 indoor use
Humidity	15 to 85 percent RH at 40 C non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 70 C
Operating temperature	0 to plus 55 C
Operating Temperature	0 to plus 55 C
Humidity	15 to 85 percent RH at 40 C non-condensing
Operating Humidity	15 to 85 percent RH at 40 C non-condensing
Altitude	up to 2000 m
Dimensions With Casing	120.00 mm x 182.40 mm x 44.00 mm
Dimensions Without Casing	105.00 mm x 174.54 mm x 25.00 mm
Weight With Casing	565 g
Weight Without Casing	370 g
Shock Vibration	tested to IEC/EN 60068-2
Virtual Port Grouping	any eight bits grouped into one virtual port
Interrupt Function	DI_101.0/301 and DI_101.1/302
Chassis Option	U2781A USB modular product chassis
Pollution Degree	2 indoor use Notes Numeric rows from Keysight U2600A Series USB Modular Isolated Digital I/O Devices data sheet 5991-0665EN model column U2652A.

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	
PARAMETER	VALUE
Instrument Type	USB modular isolated digital I/O device
Series Family	Keysight U2600A
Digital Input Bits	64-bit
Digital Output Bits	None (input-only model)
Input Type	opto-isolated
Maximum Input Voltage	24 V non-polarity referenced to DI COM
Digital Logic High	10 to 24 V
Digital Logic Low	0 to 2 V
Input Resistance	24 kOhm at 0.75 W
Input Current Maximum	1.5 mA per bit maximum
Maximum Transient Voltage	1250 Vpeak
Output Type	not applicable (no DO bits)
External Supply Voltage Range	not applicable
Mosfet Voltage Drop On	not applicable
Output Sink Current Per Bit	not applicable
Onboard Isolated Supply Voltage	not applicable (no onboard isolated 5 V on DI-only model)
Onboard Isolated Supply Current	not applicable
Onboard Isolated Supply Power	not applicable
Remote Interface	Hi-Speed USB 2.0 (480 Mbps); USBTMC-USB488
SCPI IVI Support	SCPI and IVI-COM
Connector Type	100-pin SCSI-II
Power Requirement	plus 12 VDC typical; 2 A maximum input rated current Installation Category II
Power Consumption Maximum Family	plus 12 VDC, 260 mA maximum
Power Consumption Model	plus 12 V at 115 mA typical
Typical Supply Current	115 mA typical at plus 12 V

PARAMETER	VALUE
Operating Temperature	0 to plus 55 C
Operating Humidity	15 to 85 percent RH at 40 C non-condensing
Storage Temperature	minus 20 C to 70 C
Altitude	up to 2000 m
Dimensions With Casing	120.00 mm x 182.40 mm x 44.00 mm
Dimensions Without Casing	105.00 mm x 174.54 mm x 25.00 mm
Weight With Casing	565 g
Weight Without Casing	370 g
Shock Vibration	tested to IEC/EN 60068-2
Virtual Port Grouping	any eight bits grouped into one virtual port
Interrupt Function	DI_101.0/301 and DI_101.1/302

Optional Terminal Block: U2903A 1 m or U2904A 2 m SCSI-II terminal block

Chassis Option: U2781A USB modular product chassis

Pollution Degree: 2 indoor use

Notes

Numeric rows from Keysight U2600A Series USB Modular Isolated Digital I/O Devices data sheet 5991-0665EN model column U2652A.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.