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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U2651A

Agilent Keysight U2651A USB Modular Isolated Digital I/O The Agilent/Keysight U2651A isaU2600A Series USB 2.0 isolated digital I/O module. OEM data sheet 5991-0665EN lists 32-bit isolated DI and 32-bit 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 U2651A isaU2600A Series USB 2.0 isolated digital I/O module. OEM data sheet 5991-0665EN lists 32-bit isolated DI and 32-bit 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
U2651A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U2651A

LISTING

**[https://aumictechlabs.c
om/products/u2651a-2/](https://aumictechlabs.com/products/u2651a-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U2651A is a USB modular isolated digital input/output device that delivers 32 isolated digital input channels and 32 isolated digital output channels - 64 opto-isolated digital lines total. It connects via USB 2.0 with USBTMC-USB488 standard support and operates standalone or within a modular chassis system. The device provides 1250 Vrms transient isolation protection, handles input voltages from 10 to 24 V, and supports output voltages up to 35 V

maximum. An on-board isolated +5 V supply simplifies testing and integration. Windows-compatible with SCPI and IVI-COM command support, the U2651A integrates with Keysight VEE, MATLAB, LabVIEW, and Visual Studio environments. Bundled Keysight Measurement Manager software and BenchVue enablement streamline setup and data logging.

Technical Specifications

Digital channels: 32 input, 32 output (64 opto-isolated lines total) USB interface: USB 2.0 (480 Mbps) Isolation: 1250 Vrms transient protection Input voltage range: 10 to 24 V DC Output voltage: up to 35 V maximum External supply voltage: 5 to 35 V (for external loads) On-board isolated supply: +5 V Power consumption: +12 VDC, 260 mA maximum Connector: 100-pin SCSI-II

Dimensions: 120 × 182.40 × 44 mm (with casing); 105 × 174.54 × 25 mm (without casing) Weight: 565 g (with casing) Operating temperature: 0 to +55 °C Storage temperature: -20 to 70 °C

Key Features

Virtual Port grouping: Assign any eight input/output bits to a single virtual port for simultaneous operations Interrupt function: Automatic triggering on digital state change Command logger: Captures configuration commands and exports as code snippets SCPI and IVI-COM support for standardized instrument control Standalone or modular chassis deployment options

Typical Applications

Industrial control and process monitoring Data acquisition systems requiring galvanic isolation Digital signal routing and switching Real-time event capture and triggering

Compatibility & Integration

Supported development environments: Keysight VEE, MATLAB R2007a, NI LabVIEW, Microsoft Visual Studio, Visual Studio .NET, C/C++, and Visual Basic 6. Compliant with CE marking, WEEE Directive (2002/96/EC), IEC 61326-1:2002, and tested to IEC/EN 60068-2 (Shock and Vibration).

U2651A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	USB modular isolated digital I/O device
Series Family	Keysight U2600A
Digital Input Bits	32-bit
Digital Output Bits	32-bit
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	open drain power MOSFET driver
External Supply Voltage Range	5 V to 35 V
Mosfet Voltage Drop On	less than 1.0 V maximum when on
Output Sink Current Per Bit	500 mA at 100 percent duty cycle per bit; 400 mA when full 32-bit loaded
Onboard Isolated Supply Voltage	plus 5 V typical
Onboard Isolated Supply Current	150 mA typical
Onboard Isolated Supply Power	0.85 W maximum
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 235 mA typical

PARAMETER	VALUE
Typical Supply Current	235 mA typical at plus 12 V
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 U2651A.

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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PARAMETER	VALUE
Instrument Type	USB modular isolated digital I/O device
Series Family	Keysight U2600A
Digital Input Bits	32-bit
Digital Output Bits	32-bit
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	open drain power MOSFET driver
External Supply Voltage Range	5 V to 35 V
Mosfet Voltage Drop On	less than 1.0 V maximum when on
Output Sink Current Per Bit	500 mA at 100 percent duty cycle per bit; 400 mA when full 32-bit loaded
Onboard Isolated Supply Voltage	plus 5 V typical
Onboard Isolated Supply Current	150 mA typical
Onboard Isolated Supply Power	0.85 W maximum
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 235 mA typical
Typical Supply Current	235 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
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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 U2651A.

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.