

ADAM-6317

ADAM-6350

ADAM-6360D

IoT OPC UA Ethernet I/O - AI Module

IoT OPC UA Ethernet I/O - DI/O Module

IoT OPC UA Ethernet I/O - SSR Relay Output Module



ADAM-6317



ADAM-6350



ADAM-6360D



Specifications

Analog Input

- Channels 8 (differential)
- Sampling Rate 10 or 100 samples/ second (total)
- Resolution 16 bits
- Input Range 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, ±150 mV, ±500 mV, ±1V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 mA, 4 ~ 20mA

Digital Input

- Channels 11
- Dry contact logic 0: Open
logic 1: Closed to ground
- Wet contact logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}
- DI5~DI10 support 3 kHz counter input
- DI5~DI10 support 3 kHz frequency input

Digital Output

- Channels 10
- Output type Sink type, 30 V_{DC}, 0.1A max. per channel
- DO4~DO9 support 3 kHz pulse output

Specifications

Digital Input

- Channels 18
- Dry contact logic 0: Open
logic 1: Closed to ground
- Wet contact logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}
- DI12~DI17 support 3 kHz counter input
- DI12~DI17 support 3 kHz frequency input

Digital Output

- Channels 18
- Output type Sink type, 30 V_{DC}, 0.1A max. per channel
- DO12~DO17 support 3 kHz pulse output

Specifications

Relay Output (PhotoMOS SPST)

- Channels 8 (Form A)
- Contact rating (Resistive and Inductive load) 1 A @25°C @30 V_{DC}
0.7A @70°C @30 V_{DC}
- Relay-on time 1.3 ms
- Relay-off time 0.8 ms
- Isolation (Relay output to power) 1500Vrms
- Peak Load Current 4A (100ms (1 pulse))
- Total Power Dissipation 400mW / channel
- On-state resistance 0.5Ω

Digital Input

- Channels 14
- Dry contact logic 0: Open
logic 1: Closed to ground
- Wet contact logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}
- DI8~DI13 support 3 kHz counter input
- DI8~DI13 support 3 kHz frequency input

Digital Output

- Channels 6
- Output type Sink type, 30 V_{DC}, 0.1A max. per channel
- DO0~DO5 support 3 kHz pulse output

Common Specifications

General

- Power input 10 ~ 30 V_{DC}
- Power Consumption 2.9 W @ 24 V_{DC} (ADAM-6317)
2.8 W @ 24 V_{DC} (ADAM-6350)
2.8 W @ 24 V_{DC} (ADAM-6360D)
- LAN port 2 x RJ-45 10/100 Mbps
- Connectors 2 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- Watchdog System and Communication
- Protocol OPC UA, Modbus

Protection

- Isolation 2,500 V_{DC}
- Power Reversal Protection

OPC UA

- Max Monitored Items 600 (including all sessions)
- Max Sessions 4 (including security or non-security session)
- Max Subscriptions per Session 1
- Support security/certificate management

Modbus/TCP

- Modbus/TCP connection 4

Environment

- Operating Temperature -25° C ~ 70° C
- Storage Temperature -25° C ~ 85° C
- Operating Humidity 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)

Ordering Information

- ADAM-6317-A1 OPC UA and Security Remote I/O - AI Module
- ADAM-6350-A1 OPC UA and Security Remote I/O - DI/O Module
- ADAM-6360D-A1 OPC UA and Security Remote I/O - SSR Relay Output Module

ADAM-6317

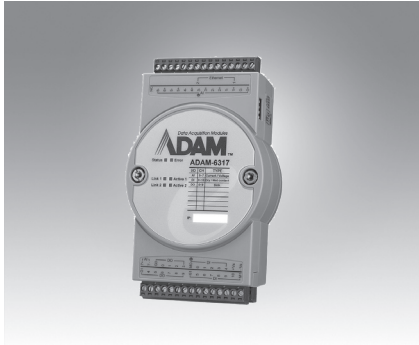
ADAM-6350

ADAM-6366

IoT OPC UA Ethernet I/O - AI Module

IoT OPC UA Ethernet I/O - DI/O Module

IoT OPC UA Ethernet I/O - SSR Relay Output Module



ADAM-6317



ADAM-6350



ADAM-6366



Specifications

Analog Input

- Channels 8 (differential)
- Sampling Rate 10 or 100 samples/ second (total)
- Resolution 16 bits
- Input Range 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, ±150 mV, ±500 mV, ±1V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 mA, 4 ~ 20mA

Digital Input

- Channels 11
- Dry contact logic 0: Open
logic 1: Closed to ground
- Wet contact logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}
- DI5~DI10 support 3 kHz counter input
- DI5~DI10 support 3 kHz frequency input

Digital Output

- Channels 10
- Output type Sink type, 30 V_{DC}, 0.1A max. per channel
- DO4~DO9 support 3 kHz pulse output

Specifications

Digital Input

- Channels 18
- Dry contact logic 0: Open
logic 1: Closed to ground
- Wet contact logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}
- DI12~DI17 support 3 kHz counter input
- DI12~DI17 support 3 kHz frequency input

Digital Output

- Channels 18
- Output type Sink type, 30 V_{DC}, 0.1A max. per channel
- DO12~DO17 support 3 kHz pulse output

Specifications

Relay Output

- Channels 6 (Form A)
- Contact rating 0.25A@250V_{AC}
2A@30V_{DC}
- Relay-on time 3 ms
- Relay-off time 5 ms
- Electrical endurance Resistive, 0.25A@250V_{AC}:
at contact application 1x10⁵ operations/min.
Resistive, 2A@30V_{DC}:
1x10⁵ operations/min.
- Insulation Resistance 1 GΩ

Digital Input

- Channels 18
- Dry contact logic 0: Open
logic 1: Closed to ground
- Wet contact logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}
- DI12~DI17 support 3 kHz counter input
- DI12~DI17 support 3 kHz frequency input

Digital Output

- Channels 6
- Output type Sink type, 30 V_{DC}, 0.1A max. per channel
- DO0~DO5 support 3 kHz pulse output

Common Specifications

General

- Power input 10 ~ 30 V_{DC}
- Power Consumption 2.9 W @ 24 V_{DC} (ADAM-6317)
2.8 W @ 24 V_{DC} (ADAM-6350)
4.5 W @ 24 V_{DC} (ADAM-6366)
- LAN port 2 x RJ-45 10/100 Mbps
- Connectors 2 x RJ-45 (LAN), Plug-in screw terminal block (I/O and power)
- Watchdog System and Communication
- Protocol OPC UA, Modbus

Protection

- Isolation 2,500 V_{DC}
- Power Reversal Protection

OPC UA

- Max Monitored Items 600 (including all sessions)
- Max Sessions 4 (including security or non-security session)
- Max Subscriptions per Session 1
- Support security/certificate management

Modbus/TCP

- Modbus/TCP connection 4

Environment

- Operating Temperature -25° C ~ 70° C
- Storage Temperature -25° C ~ 85° C
- Operating Humidity 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)

Ordering Information

- ADAM-6317-A1 OPC UA and Security Remote I/O - AI Module
- ADAM-6350-A1 OPC UA and Security Remote I/O - DI/O Module
- ADAM-6366-A1 OPC UA and Security Remote I/O - SSR Relay Output Module

ADAM-6520 Series

5-port 10/100 Mbps Industrial Ethernet Switches



Features

- Supports full/half duplex flow control
- Supports MDI/MDI-X auto crossover
- Embedded with a switch controller, supports auto-negotiation
- Supports +10 ~ 30 V_{DC} voltage power input
- Provides surge (EFT) protection 3,000 V (ADAM-6520L not equipped)
- Supports 4,000 V_{DC} Ethernet ESD protection (ADAM-6520L not equipped)
- Provides flexible mounting: DIN-rail, Wall, Stack
- Supports wide operating temperature range : -40 ~ 85° C (ADAM-6520I)

Introduction

ADAM-6520 is a 5-port industrial-grade switch with Ethernet connectivity and from 10 to 100 Mbps transfer rates. (Auto-negotiation). Just like any other product in the ADAM family, ADAM-6520 can be mounted in three different ways: DIN rail, Wall and Stack. Solid industrial-grade design assures reliable operation in common application areas like: semi-conductor factories, inventory control environments, assembly lines, manufacturing and many more.

All modules support a wide voltage range of +10 ~ 30 V_{DC} over the terminal block, and 3,000 V_{DC} surge (EFT) protection ensures that over-voltage is no concern. The wide operating temperature of ADAM-6520 goes from -10 ~ 70°, while ADAM-6520I from -40 ~ 85°. This permits them to be functional in harsh environments.

The six inclusive LED indicators make troubleshooting of the modules easier. Each port has a pair of LEDs that indicate link status and port activities. This easily informs users of any collisions, the link status, power failure and data receipts for immediate on-site diagnosis.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x
- **LAN** 10/100Base-TX
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100Mbps

Interface

- **Connectors** 5 x RJ-45
2-pin removable screw terminal (power)
- **LED Indicators** Power, Link/Speed

Power

- **Power Consumption** ADAM-6520L: Max. 3W
ADAM-6520/6520I: Max. 2.4 W
- **Power Input** 1 x Unregulated 10 ~ 30 V_{DC}

Mechanism

- **Dimensions (W x H x D)** 70 x 102 x 27 mm
- **Enclosure** IP30, ABS+PC with solid mounting kits
- **Mounting** DIN 35 rail, Wall, Stack

Protection

- **ESD (Ethernet)** 4,000 V_{DC} (ADAM-6520L not equipped)
- **Surge (EFT for power)** 3,000 V_{DC} (ADAM-6520L not equipped)

Environment

- **Operating Temperature**
ADAM-6520 : -10 ~ 70° C (14 ~ 158° F), Stack : -10 ~ 60° C (14 ~ 140° F)
ADAM-6520L : 0 ~ 60° C (32 ~ 140° F), Stack : 0 ~ 50° C (32 ~ 122° F)
ADAM-6520I : -40 ~ 85° C (-40 ~ 185° F), Stack : -40 ~ 75° C (-40 ~ 167° F)
- **Storage Temperature**
ADAM-6520 : -20 ~ 80° C (-4 ~ 176° F)
ADAM-6520L : -10 ~ 70° C (14 ~ 158° F)
ADAM-6520I : -50 ~ 95° C (-58 ~ 203° F)
- **Operating Humidity** 20 ~ 95 % (non-condensing)
- **Storing Humidity** 0 ~ 95 % (non-condensing)
- **MTBF** 1,580,000 hrs

Certifications

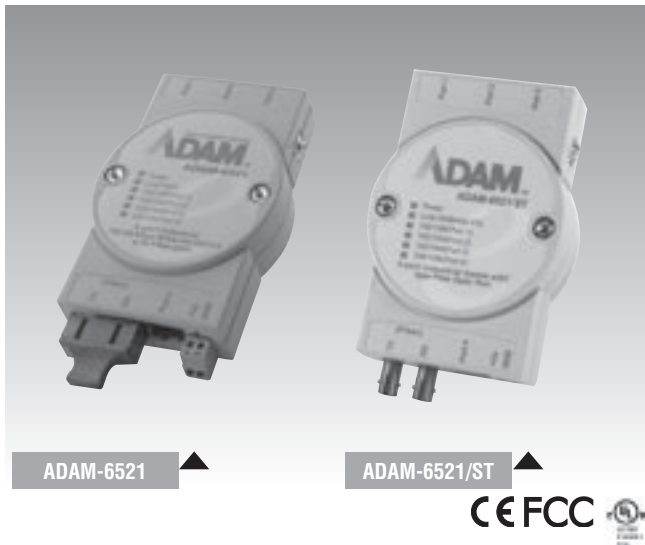
- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC** U.S.A.: FCC Part 15 CISPR 22
EU: EN55011, EN61000-6-4
EN55022 Class A,
EN61000-3-2/3
EN55024,
IEC61000-4-2/3/4/5/6/8/11
EN61000-6-2

Ordering Information

- **ADAM-6520** 5-port 10/100 Mbps Industrial Ethernet Switch
- **ADAM-6520L** 5-port 10/100 Mbps Industrial Unmanaged Ethernet Switch
- **ADAM-6520I** 5-port 10/100 Mbps Industrial Ethernet Switch w/Wide Operating Temperature

ADAM-6521 Series

**Industrial Ethernet
Switches with 4 x
10/100Base-TX Ports
& 1 x 100Base-FX
Fiber Optic Port**



Features

- Provides 4 x 10/100 Mbps Ethernet ports with RJ-45 connector
- Provides 1 x 100 Mbps multi/single-mode fiber port with SC/ST connector
- Supports full/half duplex flow control
- Supports Integrated Loop-up engine
- Supports MDI/MDI-X auto crossover
- Provides broadcast storm protection
- Supports +10 ~ 30 V_{DC} voltage power input
- Supports 4,000 V_{DC} Ethernet ESD protection
- Provides flexible mounting: DIN-rail, Wall, Stack
- Supports operating temperatures from -10 ~ 65° C

Introduction

ADAM-6521 and ADAM-6521S are industrial-grade Ethernet switch with a fiber optic port that makes it possible to expand industrial networks fast and cost-effectively. ADAM-6521 and ADAM-6521S of 1 fiber port and 4-RJ-45 ports. With fiber optics, you can prevent noise interfering with your system and implement transmission distances up to 15 km.

ADAM-6521 and ADAM-6521S are especially suited for industrial environments with Ethernet networking needs such as: semi-conductor factories, inventory control environments, assembly line and production and more.

ADAM-6521 and ADAM-6521S support a wide voltage range of +10 ~ 30 V_{DC} over the terminal block, and 3,000 V_{DC} surge (EFT) protection to protect it from being damaged by over-voltage. A wide operating temperature range from -10 to 65° C (14 ~ 149° F), makes it functional in harsh operating environments. They also have six inclusive LED indicators which make troubleshooting the ADAM-6521 and ADAM-6521S easier. Each port has a pair of LEDs that indicate link status and transmission speed. This function conveniently informs users of any collisions, the link status, power failure and data receipts for immediate on-site diagnostics.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x
- **LAN** 10/100Base-T, 100Base-FX
- **Transmission Distance** Ethernet : Up to 100 m
Multi-mode Fiber : Up to 2 km
(ADAM-6521, ADAM-6521/ST)
Single-mode Fiber : Up to 15 km (ADAM-6521S)
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors** 4 x RJ-45, 1 x SC type fiber connector (ADAM-6521, ADAM-6521S) or 1 x ST type fiber connector (ADAM-6521/ST)
2-pin removable screw terminal (power)
- **LED Indicators** Power, Link (100Base-FX), 100/10M (Ethernet)

Power

- **Power Consumption** ADAM-6521, ADAM-6521/ST: Max. 3 W
ADAM-6521S: Max. 4 W
- **Power Input** 1 x Unregulated 10 ~ 30 V_{DC}

Mechanism

- **Dimensions (W x H x D)** 70 x 112 x 27 mm
- **Enclosure** IP30, ABS+PC with solid mounting kits
- **Mounting** DIN 35 rail, Wall, Stack

Protection

- **ESD (Ethernet)** 4,000 V_{DC}
- **Surge (EFT for power)** 3,000 V_{DC}

Environment

- **Operating Temperature** -10 ~ 65° C (14 ~ 149° F)
stack : -10 ~ 60° C (14 ~ 140° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 1,150,000 hrs

Certifications

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC** U.S.A.: FCC Part 15 CISPR 22
EU: EN55011, EN61000-6-4
EN55022 Class A,
EN61000-3-2/3,
EN55024,
IEC61000-4-2/3/4/5/6/8/11
EN61000-6-2

Ordering Information

- **ADAM-6521** Industrial Ethernet Switch with 4 x 10/100Base-TX Ports & 1 Multi-mode SC Type Fiber Optic Port
- **ADAM-6521/ST** Industrial Ethernet Switch with 4 x 10/100Base-TX Ports & 1 Multi-mode ST Type Fiber Optic Port
- **ADAM-6521S** Industrial Ethernet Switch with 4 x 10/100Base-TX Ports & 1 Single-mode SC Type Fiber Optic Port

ADAM-6700E

USB to MiniPCle Adaptor Module



Specifications

General

- **Certification** CE, FCC
- **Mounting** Wall-Mount, DIN-Rail
- **Power Input** 10 ~ 30 V_{DC}
- **Power Consumption** Depend on mPCle module; ADAM-6700E supports maximum 6.6W @ 24 V_{DC}
- **Connectors** Plug-in screw terminal block (Power)
- **Indicators** LEDs for Power, * Reserve LTE module(Optional)
- **USB Port** Micro-B USB
- **Wireless (Optional)** Interface: 1x Mini-PCle (Full-size)
Type: Wi-Fi/3G/4G
Signal: USB
- **Sim Card Slot** 1 x Nano SIM Card slot

Protection

- **Power Reversal Protection** Yes

Environment

- **Operating Temperature** -20 °C ~ 70 °C
- **Storage Temperature** -40 °C ~ 85 °C
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)

Ordering information

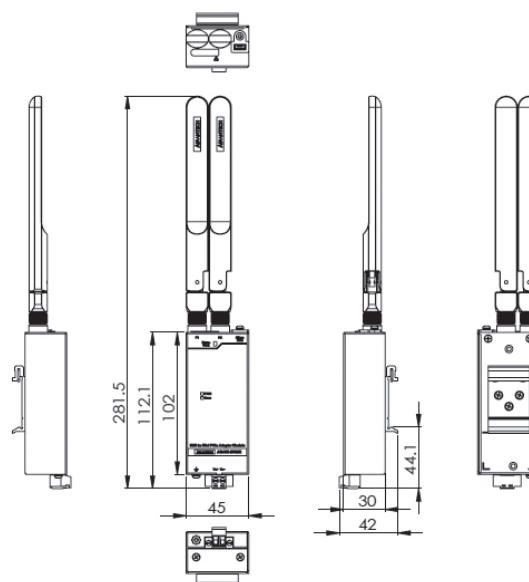
- **ADAM-6700E-A** USB to MiniPCle Adaptor Module

Wi-Fi, LTE-Cat4/3G

Type	Part Number	Description	Suggestion Cable		Suggestion Antenna	
			Part Number	Qty	Part Number	Qty
Wi-Fi 2.4G	96PD-RYUW131	2.4GHz Wi-Fi Full/Half Size Mini PCle Card	1750006043: 15cm	1	1750008648-01	1
	96PD-RYUW131A1	2.4GHz Wi-Fi Full/Half Size Mini PCle Card (JP)	In the package			
LTE-Cat4/3G	96PD-EC25EFA	Quectel 4G(Cat.4), miniPCle, Europe, EMEA (Manufacturer P/N: EC25EFA-MINIPCE)	1750006264: 15cm	1	1750008303-01 1	1
	96PD-EC25JFA	Quectel 4G(Cat.4), miniPCle, JP (Manufacturer P/N: EC25JFA-MINIPCE)	Local Source			
	96PD-EC20CEFAG	Quectel 4G(Cat.4) R2.1, miniPCle, China (Manufacturer P/N: EC20CEFAG-MINIPCE) 1	1750006264: 15cm	1	1750008303-01	1
LTE-Cat4 Modem	96PD-MDG100AE0	AMIC 4G.Cat4 Socket Modem(Europe)	1750006264: 15cm	1	1750008303-01	1
	96PD-MDG200AU0	AMIC 4G.Cat4 Socket Modem(US)	1750006264: 15cm	1	1750008303-01	1

Dimensions

Unit: mm



Accessories

- **1960094069N001** Wall-mount kit for ADAM-6700E 432C
- **96PD-YH3874** USB molding cable, 90Degree

ADAM-6717

ADAM-6750

ADAM-6760D

Intelligent I/O Gateway with Analog Input

Intelligent I/O Gateway with Digital I/O

Intelligent I/O Gateway with Solid-State Relay Output (for DC)



ADAM-6717

Specifications

Analog Input

- **Channels** 8 (differential)
- **Sampling Rate** 10 or 100 samples/ second (total)
- **Resolution** 16 bits
- **Input Range** 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, 0 ~ 20 mA, 4 ~ 20mA

Digital Output

- **Channels** 4
- **Output type** Sink 30 V_{DC}, 0.1A max. per channel

Digital Input

- **Channels** 5
- **Dry contact** logic 0: Open
logic 1: Close to ground
- **Wet contact** logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}



ADAM-6750

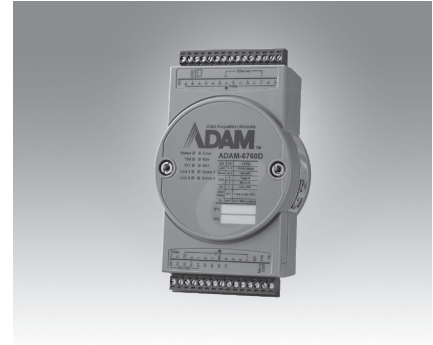
Specifications

Digital Input

- **Channels** 12
support 3KHz counter input
- **Dry contact** logic 0: Open
logic 1: Close to ground
- **Wet contact** logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}

Digital Output

- **Channels** 12 (support 3KHz pulse output)
- **Output type** Sink 30 V_{DC}, 0.1A max. per channel



ADAM-6760D

Specifications

Digital Input

- **Channels** 8
support 3KHz counter input
- **Dry contact** logic 0: Open
logic 1: Close to ground
- **Wet contact** logic 0: 0 ~ 3 V_{DC}
logic 1: 10 ~ 30 V_{DC}

Relay Output (PhotoMOS SPST)

- **Channels** 8 (Form A)
- **Contact rating (Resistive and Inductive load)** 30 V_{DC}
1 A @25°C
0.7A @70°C
- **Relay-on time** 1.3 ms
- **Relay-off time** 0.8 ms
- **Insulation (Relay output to power)** 1500Vrms
- **Peak Load Current** 4A (100ms (1 pulse))
- **Total Power Dissipation** 400mW / channel
- **On-state resistance** 0.5 Ω

Common Specifications

General

- **MCU** Cortex-A8 32-Bit 1GHz
- **Memory** DDR3L 512MB
- **Storage** NAND flash 512MB for system storage
microSD Slot (Optional)
- **OS** RT Linux V3.12
- **Programming** Node-RED Linux C
- **Power input** 10 ~ 30 V_{DC}

- **Operation temperature** -40 ~ 70°C
- **Storage temperature** -40 ~ 85°C
- **Isolation** 2500 V_{DC}

Communication

- **LAN port** 2 x RJ-45 10/100 Mbps (2MAC ID)
- **Serial port** 2 x RS-485
- **USB port** 1 x USB Type-A 2.0,
1 x USB Micro-B 2.0

Ordering information

- **ADAM-6717-A** Intelligent I/O Gateway with Analog Input
- **ADAM-6750-A** Intelligent I/O Gateway with Digital I/O
- **ADAM-6760D-A** Intelligent I/O Gateway with Solid-State Relay Output (for DC)