

# Low Power USB Charged, Palm Sized 5 port Switch

## DS105 series

### Industrial 5-port Unmanaged Ethernet Switch

The low power rugged design 5 port switch DS105 can stand for harsh environment and wide temperature (-40 to 75°C) use. Ultra low power design consumes only 0.8W during full traffic. The compact size can fit in for space limited installation such as vehicle wall-mounting or Din-mount for cabinets. Micro USB DC 5V power input is flexible for installation.



### Features & Benefits

#### Ethernet Network Switching

- 5-port 10/100BaseTX Ethernet with auto Negotiation, auto MDI/MDIX
- Stores and forwards with non-blocking switch fabric

#### IEEE 802.3az EEE Power Management

- Ultra low power design, less than 1W (0.81W) when full loading
- Energy Efficient Ethernet for low power requirement
- Idle power saving mode for energy efficiency

#### Broadcast Storm Protection & QoS

- Auto drop excessive incoming broadcast packets for network availability protection
- Port-based QoS port for Ethernet Port 4/5

#### Versatile Power Input and Mounting

- 5~30VDC wide range power input
- Micro USB connector for USB DC 5V power input
- Redundant power design: 5~30V/USB 5V
- Support Wall-mount and Din-mount

#### Rugged Mechanical Design

- Ultra compact mechanical design
- Wide operating temperature range **-40 ~ 75°C**
- CE marking
- IEC61000-6-2/IEC61000-6-4 heavy industrial EMC



## Interfaces



### Wall Mount Clip

- Also used for DIN rail mounting with bracket (Bracket not Included)

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### Integrated Power Connector

- 3-Pin Removable Terminal Connector
- 2 Pin for Power Input (V+, V-)
- 1 Pin for Ground

### USB 5V Power Input

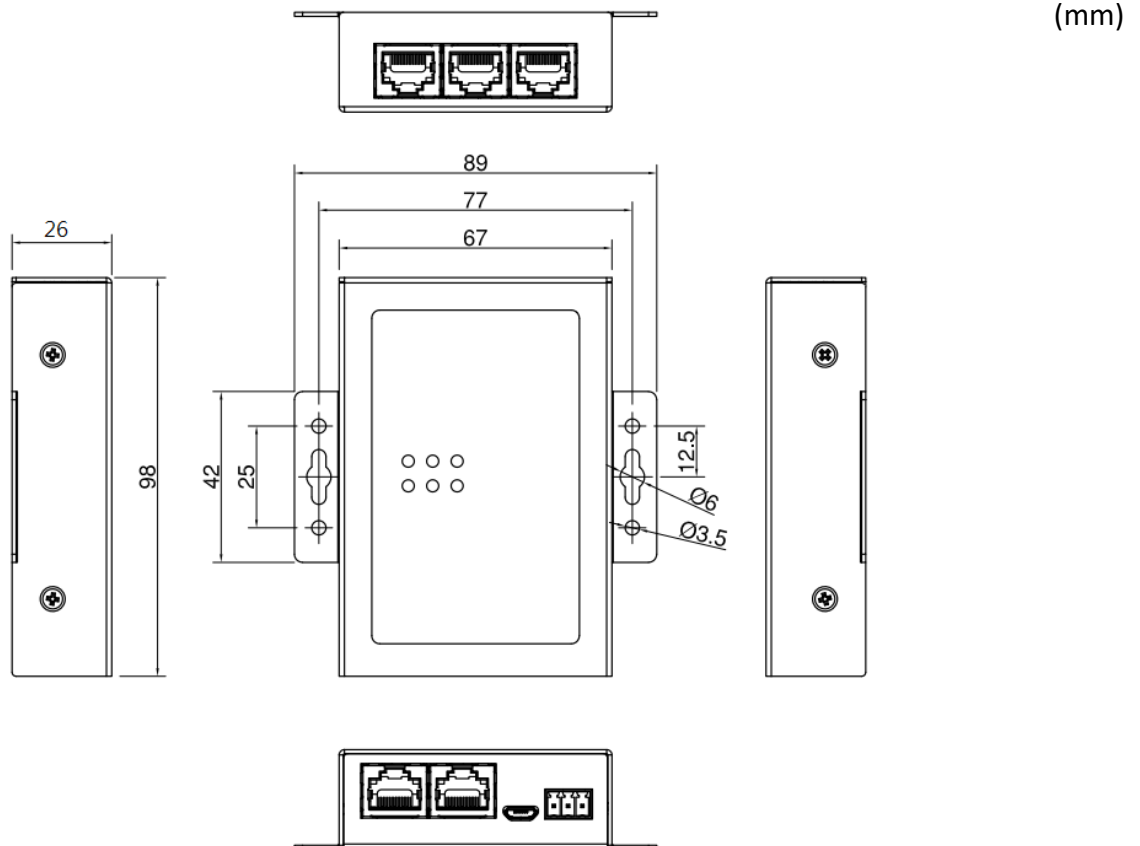
- MicroUSB Connector

### Ethernet Network

- 5-port 10/100MBase-TX
- (3-port on top, 2-port on bottom)



## Dimensions



Technology	
<b>Standard</b>	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3az Energy Efficient Ethernet
Performance	
<b>Switch Technology</b>	Store and Forward Technology with Non-Blocking Switch Fabric
<b>Number of MAC Address</b>	1K
<b>Packet Buffer Memory</b>	448K bits
<b>Broadcast Storm Protection</b>	Supported
<b>QoS</b>	Port Based QoS on Ethernet Port 4/5
<b>Transfer performance</b>	10Base-T: 14,880pps, 100Base-TX: 148,800pps
Interface	
<b>Ethernet Port</b>	5 x 10/100Base-TX RJ45, Auto Negotiation, Auto MDI/MDIX
<b>System LED</b>	1 x Power: Green On 5 x Ethernet Port: Link (Green On), Activity (Green Blinking)
<b>Power input</b>	MicroUSB for DC 5V or 3-Pin Removable Terminal Connector 2 Pin for Power Input (V+, V-) 1 Pin for Ground
Power Requirement	
<b>Input Voltage</b>	24VDC(5~30 VDC) in Terminal Block or 5 VDC in MicroUSB Redundant power: 5~30V/USB 5V
<b>Reverse Polarity Protect</b>	Yes
<b>Input Current</b>	0.034A@24V
<b>Power Consumption</b>	Max. 0.81W@24V full traffic, suggest to reserve 15% tolerance
Mechanical	
<b>Installation</b>	Wall mount/DIN Rail
<b>Enclosure Material</b>	Steel Metal
<b>Dimension</b>	98 (D) x 89 (H) x 26mm (W) / with wall mounting clip 98 (D) x 67 (H) x 26mm (W) / without wall mounting clip
<b>Ingress Protection</b>	IP40
<b>Weight</b>	220g without package
Environmental	
<b>Operating Temperature &amp; Humidity</b>	-40°C~75°C , 0%~95% Non-Condensing
<b>Storage Temperature</b>	-40°C~80°C
<b>MTBF</b>	>200,000 hours
<b>Warranty</b>	5 years
Standard	
<b>EMC</b>	EN61000-6-2/EN61000-6-4
<b>EMI</b>	CISPR 22, FCC part 15B Class A
<b>EMS</b>	EN61000-4-2 ESD, EN61000-4-3 RS, EN61000-4-4 EFT, EN61000-4-5, EN61000-4-6 CS, EN61000-4-8 Magnetic Field



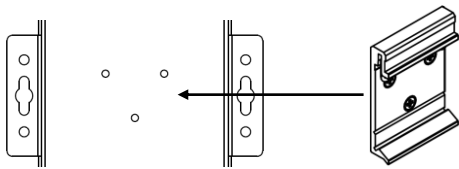
## Ordering Information

<b>MOQ</b>	2pcs
<b>MPQ</b>	2pcs/box
<b>Model Name</b>	<b>Description</b>
<b>DS105</b>	Industrial 5-port Unmanaged Ethernet Switch
	<b>Package List</b>
	1 x Product Unit
	1 x Attached 3-pin Removable Terminal Block Connector
	1 x Quick Installation Guide

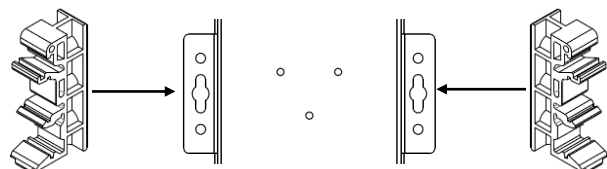


## Optional Accessory

Item	
<b>CBL-MUSBA-MMICB-0.6M</b>	USB A Type to Micro USB B Type Cable, 0.6M
<b>CBL-MUSBA-MMICB-1M</b>	USB A Type to Micro USB B Type Cable, 1M
<b>DK-D1-1</b>	DIN Rail Kit with 1 Aluminum DIN and 3 screws
<b>DK-D2-2</b>	DIN Rail Kit with 2 Plastic DIN and 4 screws



DK-D1-1



DK-D2-2