



UNMANAGED INDUSTRIAL ETHERNET SWITCH

QUICK INSTALLATION GUIDE

Thank you for choosing Vikings Technology. This guide describes how to install our D1, D2, D3, D6 & D7 type Unmanaged Industrial Ethernet Switches.

Package Contents

- Unmanaged Industrial Ethernet Switch x 1
- Wall mount bracket x 1
- This Quick Installation Guide x 1

Safety Guidelines

- Do not look into bores of energized optical fiber cables or optical modules without eye protection - laser beams may cause eye damage.
- Follow all general safety guidelines and instructions installing and handling such low current & low voltage devices.

Installation

- To install the Ethernet switch on a DIN rail, lock the upper part of the DIN rail clip on the upper side of the DIN rail and then gently press it until the clip is securely locked on the rail. To install it on the wall, unscrew the DIN rail clip and replace it with included wall mount bracket and screw it on the wall.
- Please follow the table below for port type, speed, PoE power and SFP module connections. You can power the switch from one DC power supply. If power redundancy is required, connect second power supply. Select your DC power supply (-ies) matching the voltage range and max power consumption required:

Model	Ports	RJ45			SFP		Power	
		10/100/1000M	PoE+ 802.3af/at	PoE budget, W	100M/1G	1G	Voltage, VDC	Max cons, W
SUG220-D6	1-2	-	-	-	3-4	-	12-58	5
SUG410-D1	1-4	-	-	-	-	5	12-58	5
SUG420-D1	1-4	-	-	-	-	5-6	12-58	5
SUG510-D1	1-5	-	-	-	-	6	12-58	5
SUG800-D7	1-8	-	-	-	-	-	12-58	5
SUG820-D2	1-8	-	-	-	-	9-10	12-58	8
SUG1620-D3	1-16	-	-	-	-	17-18	12-58	10
SUG220P-D6	1-2	1-2	60	3-4	-	-	44-57	65
SUG410P-D1	1-4	1-4	120	-	5	-	44-57	125
SUG420P-D1	1-4	1-4	120	-	5-6	-	44-57	125
SUG510P-D1	1-5	1-4	120	-	6	-	44-57	125
SUG800P-D7	1-8	1-8	240	-	-	-	44-57	245
SUG820P-D2	1-8	1-8	240	-	9-10	-	44-57	248
SUG1620P-D3	1-16	1-16	240	-	17-18	-	44-57	250

- For better unit's protection against surge, connect the ground cable to the ground screw located on the top of the unit.

- Power up your power supply (-ies) to power up the unit. If all cables are correctly connected, the indicators will lit as per LEDs status below:

LED	Color	Indication
P (Power)	Green	Off: unit is not getting power or failed Lit: unit is powered on
S (Status)	Red	Non-PoE models: Off: unit running normally Lit: the core chip running abnormally PoE models: Off: total PoE usage < 50% Blink: total PoE usage between 50%-90% Lit: total PoE usage > 90%
RJ45 ports	Green	Off: port is not active Lit: connection is established Blink: data is being transmitted
	Yellow	Non-PoE models: Off: 10/100Mbps connection is established Lit: 1000Mbps connection is established PoE models: Off: PoE is not supplied Lit: PoE is supplied
SFP ports	Green	Off: port is not active Lit: fiber link is established Blink: data is being transmitted

- You may use the DIP switches located on the top of the unit to enable or disable certain functionality. Default settings are all OFF. Switch it ON if you need to enable the certain function. Functions description as below:

Model	DIP1	DIP2	DIP3	DIP4
SUG220-D6	Redundant fiber	Flow control	Broadcast storm suppression	SFP port: ON:100/1000M OFF:1000M
SUG410-D1	Port isolation		QoS (ports 1-2)	Broadcast storm suppression
SUG420-D1				
SUG510-D1				
SUG800-D7				
SUG820-D2				
SUG1620-D3	Link aggregation			
SUG220P-D6	Redundant fiber	SFP port: ON:100/1000M OFF:1000M	250m Extended Ethernet (port 1)	PoE Watchdog
SUG410P-D1	Port isolation	250m Extended Ethernet (ports 1-2)	QoS (ports 1-2)	
SUG420P-D1				
SUG510P-D1		250m Extended Ethernet (ports 1-4)		
SUG800P-D7				
SUG820P-D2				
SUG1620P-D3	Link aggregation			

Contact information

Vikings Technology Co. LTD.
www.vikingstechnology.com
support@vikingstechnology.com

