MOXA® **Industrial Rackmount Switch IKS-6500 Series** Hardware Installation Guide

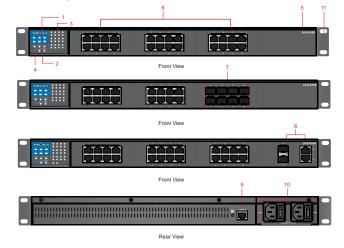
First Edition, November 2009

Package Checklist

The Moxa IKS-6500 Series industrial rackmount switches are shipped with the following items. If any of these items are missing or damaged, please contact your customer service representative for assistance.

- 1 Moxa IKS-6500 Series Switch
- ٠ Hardware Installation Guide
- CD-ROM with User's Manual and SNMP MIB file
- Moxa Product Warranty Statement
- RJ45 to DB9 console port cable .
- Protective caps for unused ports
- 2 rack-mount ears

Panel Layouts



P/N: 1802065000010

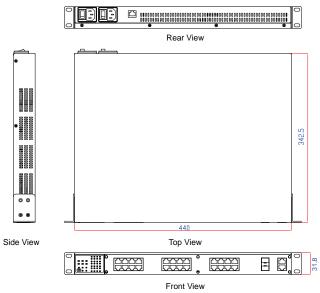
- System status LEDs 1.
- 2. Mode LEDs
- Ports status LEDs 3.
- 4. Push-button to select mode for all ports
- 5. Model Name
- 10/100BaseT(X) port 6.

- 7. 8. Gigabit Ethernet port
 - 9. Serial Console port

100BaseSFP slot

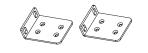
- 10. AC power sockets for power inputs
- 11. Rack Mounting Kit

Dimensions (unit = mm)



Rack Mounting

Use four screws to attach the switch to a standard rack.



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Grounding the Moxa Industrial Rackmount Switch

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices.

Connecting the Power Inputs

The IKS-6500 series of switches supports up to dual redundant power supplies: Power Supply 1 (PWR1) and Power Supply 2 (PWR2). The connections for PWR1 and PWR2 are located on the rear side (shown below). Be sure to use a standard power cord with an IEC C13 connector, which is compatible with the AC power inlet.



LED Indicators

The front panel of the IKS-6500 Series switch contains several LED indicators. The function of each LED is described in the table below.

LED	Color	State System	Description
STAT	GREEN	On	System has passed self-diagnosis test on boot-up and is ready to run.
		Blinking	System is undergoing the self-diagnosis test.
	RED	On	System failed self-diagnosis on boot-up.
PWR1	AMBER	On	Power is being supplied to the main module's power input PWR1.
		Off	Power is not being supplied to the main module's power input PWR1.
PWR2	AMBER	On	Power is being supplied to the main module's power input PWR2.
I WKZ		Off	Power is not being supplied to the main module's power input PWR2.
FAULT	RED	On	System is in the event of failure, or is under quick inspection.
		Off	System is in normal operation.
	GREEN	On	When the IKS-6500 is set as the Master of the Turbo Ring, or as the Head of the Turbo Chain.
MSTR/ HEAD		Blinking	The IKS-6500 has become the Ring Master of the Turbo Ring, or the Head of the Turbo Chain, after the Turbo Ring or the Turbo Chain is down.
CPLR/	GREEN	On	When the IKS-6500 coupling function is enabled to form a back-up path, or when it's set as the Tail of the Turbo Chain.
TAIL		Blinking	When the Turbo Chain is down
		Off	When this IKS-6500 switch disables the coupling function.

Mode LEDs				
LNK/ACT GREE		On	The corresponding port's link is active.	
	GREEN	Blinking	The corresponding port's data is being transmitted.	
		Off	The corresponding port's link is inactive.	
SPEED GREEN		Off	The corresponding port's data is being transmitted at 10 Mbps.	
	GREEN	On	The corresponding port's data is being transmitted at 100 Mbps.	
		Blinking	The corresponding port's data is being transmitted at 1000 Mbps.	
FDX/HDX	GREEN	On	The corresponding port's data is being transmitted in full duplex mode.	
		Off	The corresponding port's data is being transmitted in half duplex mode.	
RING PORT C	GREEN	On	The corresponding port is the ring port of this IKS-6500 switch.	
	UKLEN	Off	The corresponding port is not the ring port of this IKS-6500 switch.	
COUPLER PORT G	GREEN	On	The corresponding port is the coupler port of this IKS-6500 switch.	
	GREEN	Off	The corresponding port is not the coupler port of this IKS-6500 switch.	

Specifications

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Technology			
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x,		
	802.1D, 802.1W, 802.1Q, 802.1p, 802.1X, 802.3ad		
Flow control	IEEE 802.3x flow control, back pressure flow		
	control		
Interface			
RJ45 Ports	10/100BaseT(X) and 10/100/1000BaseT(X) auto		
	negotiation speed		
Fiber Ports	100BaseSFP slot or 1000BaseSFP slot		
System LED	STAT, PWR1, PWR2, FAULT, MSTR/HEAD,		
Indicators	CPLR/TAIL		
Module LED	LNK/ACT, FDX/HDX, SPEED, RING PORT,		
Indicators Power	COUPLER PORT		
	110/220 VAC (85 to 264 VAC)		
Input Voltage Power	110/220 VAC (85 to 264 VAC) IKS-6524-F-HV-T: 333/222mA @ 110/230VAC		
Consumption	IKS-6524-F-HV-HV-T: 402/324mA @		
Consumption	110/230VAC		
	IKS-6524-8SFP-F-HV-T: 501/295mA @		
	110/230VAC		
	IKS-6524-8SFP-F-HV-HV-T: 555/390mA @		
	110/230VAC		
	IKS-6526-2GTXSFP-F-HV-T: 398/254mA @		
	110/230VAC		
	IKS-6526-2GTXSFP-F-HV-HV-T: 465/350mA @		
	110/230VAC		
Physical Character			
Housing	IP 30 protection, metal case		
Dimensions (W x H x D)	440 x 44 x 342.5 mm (17.32 x 1.73 x 13.48 in.)		
Weight	IKS-6524: 4780g		
weight	IKS-0524. 4780g IKS-6524-8SFP: 4850g		
	IKS-6526-2GTXSFP: 4820g		
Installation	19" rack mounting		
Regulatory Appro	e		
Safety	UL60950-1, CSA C22.2 No. 60950-1, EN60950-1		
ý	(Pending)		
Road Traffic	NEMA TS2		
Maritime	DNV (Pending), GL (Pending), ABS (Pending),		
	LR (Pending), NK (Pending)		
Rail Traffic	EN50121-4		
EMI	FCC Part 15, CISPR (EN55022) class A		
Hazardous	UL/cUL Class I, Division 2, Groups A, B, C, D		
Location	(Pending)		
Environmental L			
Operating Temp.	-40 to 75°C (-40 to 167°F) for -T models		
Storage Temp.	-40 to 85°C (-40 to 185°F)		
Ambient Relative	5 to 95% (non-condensing)		
Humidity.	-		

Warranty 5 years

The Americas: ±1.714.528.6777 (f

Click here for online support: www.moxa.com/support

The Americas: +1-714-528-6777 (toll-free: 1-888-669-2872) Europe: +49-89-3 70 03 99-0 Asia-Pacific: +886-2-8919-1230 China: +86-21-5258-9955 (toll-free: 800-820-5036)

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