



# Quick Installation Guide

# Introduction

DES-3082GP-P is a desktop managed Redundant Ring Ethernet switch with 8x10/100Base-T(X) and 2x100/1000Base-X SFP ports. With completely support of Ethernet Redundancy protocol, O-Ring (recovery time < 10ms over 250 units of connection), Open-Ring, O-Chain and MSTP/RSTP/STP (IEEE 802.1s/w/D) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. Another Open-Ring technology is also supported which can applied for other vendor's proprietary ring. O-Chain is the revolutionary network redundancy technology that provides the add-on network redundancy topology for any backbone network, O-Chain allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology. O-Chain providing ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology. All function of DES-3082GP-P can be managed centralized and convenient by a powerful windows utility: Open-Vision. In addition, the wide operating temperature range from -40 to 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for highly-managed Fiber Ethernet application.



# Features

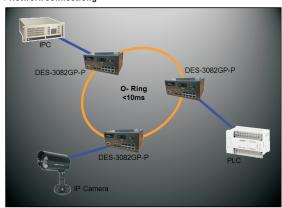
- > World's fastest Redundant Ethernet Ring: O-Ring (recovery time < 10ms over 250 units of connection)
- > Open-Ring support other vendor's ring technology in open architecture
- Support standard IEC 62439-2 MRP (Media Redundancy Protocol) function
- MSTP/RSTP/STP(IEEE 802.1s/w/D)
- Support PTP Client (Precision Time Protocol) clock synchronization
- > Support Modbus/TCP protocol
- > IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Support LLDP protocol
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- > Port lock to prevent access from unauthorized MAC address
- Windows utility (Open-Vision) support centralized management and configurable by Web-based ,Telnet, Console(CLI)
- Support two SFP connectors for 100/1000Base-X SFP Fiber
- Rigid IP-30 housing design

# **DES-3082GP-P**

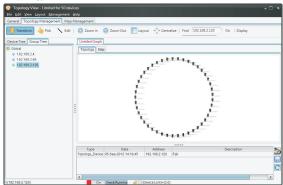
# Open-Vision

ORing's switches are intelligent switches. Different from other traditional redundant switches, ORing provides a set of Windows utility (Open-Vision) for user to manage and monitor all of industrial Ethernet switches on the industrial network.

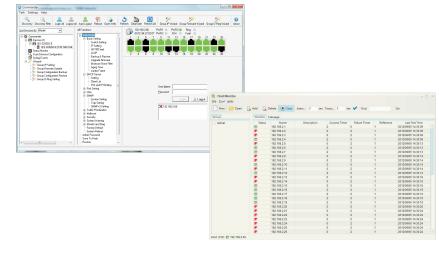
### Network connectiong



### Topology View



### Configuration interface



# **Industrial Managed Ethernet Switch**

# Specifications

ORing Switch Model	DES-3082GP-P	
Physical Ports	·	
10/100 Base-T(X) Ports in RJ45	8	
Auto MDI/MDIX		
100/1000Base-X SFP Port	2	
Technology		
Ethernet Standards	IEEE 80.3.1 for 10Base-T, IEEE 80.3.3 for 10Base-TA, IEEE 80.2.3 for 100Base-X IEEE 80.3.2 for 10Base-T, IEEE 80.3.3 for 10Base-T, IEEE 80.3.1 for 10Base-T, IEEE 80.3 for 10Base-T, IEEE	
MAC Table	8192 MAC addresses	
Priority Queues	4	
Processing	Store-and-Forward	
Switch Properties	Switching lateancy: 7us Switching bandwidth: 5.6Gbps Switching bandwidth: 5.6Gbps IGMP multicast groups: 1024 Port rate limiting: User Define	
Security Features	Enable/disable ports, MAC based port security Nort haside network access control (802. Iv) VLAN (802. Iq) I to seprepate and secure network traffic Supports Q-in-Q-VLAN for performance & security to expand the VLAN space Radius centralized password management SMMP's encrypted authentication and access security	
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (0-Ring) with recovery time less than 10ms over 250units Modous/TCP supported QoS supported TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.10) with VLAN tagging and GVRP supported IGMP Snooping for multicast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network Support PTC iclient (recision Time Protocol clock synchronization) DHCP Server / Client support Port Trunk support MNR (Multicast VLAN Registration) support Modous TCP	
Network Redundancy	O-Ring, Open-Ring, O-Chain, MRP, STP/ RSTP/ MSTP	
Warning / Monitoring System	Relay output for fault event alarming Sysing server, Client to record and view events Include SMTP for event warning notification via email Event selection support	
RS-232 Serial Console Port	RS-232 in DB9 Female connector with console cable. 9600bps, 8, N, 1	
LED Indicators		
Power indicator	Green: Power LED x 1	
Status Indicator	Green: Status LED x 1	
R.M. indicator	Green: Indicate system operated in O-Ring master mode	
O-Ring indicator	Green: Indicate system operated in O-Ring mode	
Fault indicator	Amber: Indicate unexpected event occurred	
10/100Base-T(X) RJ45 Port indicator	Green for port Link/Act. Amber for Duplex/Collision	
100/1000Base-X Fiber port indicator	Green for port Link/Act.	
Fault Contact		
Relay	Relay output to carry capacity of 1A at 24VDC	
Power		
Input power	100~240V AC	
Power consumption(Typ.)  Overload current protection	9 Watts Present	
Physical Characteristic	Present	
	IP-30	
Enclosure		
Dimension (W x D x H) Weight (g)	200 (W) x 130 (D) x 88 (H) mm (7.87 x 5.12 x 3.46 inches)	
	1385 g	
Environmental Storage Temperature	40. 0004.40. 4000	
	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-40 to 70°C (-40 to 158°F)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory Approvals		
EMS	FCC Part 15, CISPR (ENS5022) class A  EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
	IEC60068-2-6 EN60950-1	





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# **DES-3082GP-P**

# **Industrial Managed Ethernet Switch**

## Communication Connections

### ● 10/100Base-T(X) Ethernet Port Connection

■ RJ45 (8-pin, MDI) Port Pinouts

■ RJ45 (8-pin, MDI-X) Port Pinouts

Pin Signa

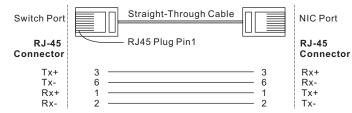
1 Tx+
2 Tx3 Rx+



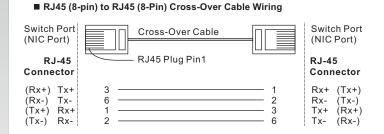




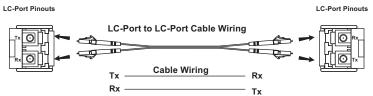
## ■ RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



# Accessory



# • 100/1000Base-X SFP Port Connection



> Front Panel

# Ring Enabled LED Ring Master LED Power LED Status R.M Fault P8 P6 P4 P2 PWR Ring 10/100 Base-T(X) LAN Port

# essory

① Dust Cover (RJ-45)	② Dust Cover (SFP)	③ QIG







6 Console Cable

# ▶ Packing list

100/1000 Base-X

Fiber Port LNK / ACT LED

Model Name	Model Description	Accessory
DES-3082GP-P_US	Industrial 10-port desktop managed bypass Ethernet switch with 8x10/100Base-T(X) and 2x100/1000Base-X, SFP socket, US power cord	①X8, ②X2, ③X1, ④X1, ⑤X1, ⑥X1
DES-3082GP-P_EU		①X8, ②X2, ③X1, ②X1, ⑤X1, ⑥X1

LNK/ACT LED Full Duplex LED (Green) (Amber)

