

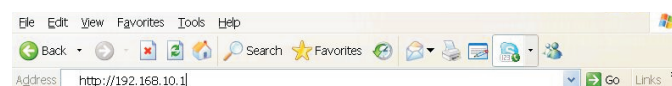


## Specifications

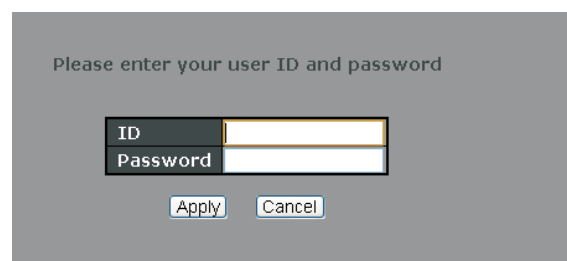
LED	Color	Status	Description
PWR1	Green	On	DC power module 1 activated
PWR2	Green	On	DC power module 2 activated
R.M	Green	On	System running in Ring Master mode
Ring	Green	On	System running in Ring mode
		Blinking	Ring is broken
Fault	Amber	On	Errors occur (power failure or port link down)
<b>10/100Base-T(X) Ports</b>			
LNK/ACT	Green	On	Port is linked
		Blinking	Transmitting data
DPX/COL	Amber	On	Port running in full-duplex mode
		Blinking	Collision occurs
<b>10/100/1000Base-T Ports</b>			
LNK/ACT	Green	On	Port is linked
		Blinking	Transmitting data
100M	Amber	On	Port speed at 100M

Follow the steps below to log in and access the system:

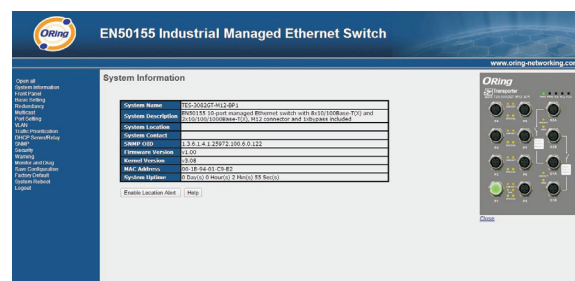
1. Launch the Internet Explorer and type in IP address of the device. The default static IP address is **192.168.10.1**



2. Log in with default user name and password (both are **admin**).



3. After logging in, you should see the following screen. For more information on configurations, please refer to the user manual. For information on operating the device using ORing's Open-Vision management utility, please go to ORing website.



### Resetting

To restore the device configurations back to the factory defaults, press the **Reset** button for a few seconds. Once the power indicator starts to flash, release the button. The device will then reboot and return to factory defaults.

ORing Switch Model	TES-3082GT-M12-BP1
<b>Physical Ports</b>	
10/100 Base-T(X) Ports in M12 Auto MDI/MDIX	<b>8 x M12 connector (4 pin D-coding)</b>
10/100/1000Base-T(X) ports in M12	<b>2 x (combinig 2 x M12 connectors 4-pin D-coding for 1 Gigabit port)</b>
RS-232 Serial Console Port	<b>RS-232 in M12 connector (A-coding). Baud rate setting: 9600bps, 8, N, 1</b>
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
MAC Table	2K MAC addresses
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 5.6 Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 1024 Port rate limiting: User Define
Security Features	Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic Supports Q-in-Q VLAN for performance & security to expand the VLAN space Radius centralized password management SNMP v1/v2c/v3 encrypted authentication and access security
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (O-Ring) with recovery time less than 10ms over 250units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) 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 PTP Client (Precision Time Protocol) clock synchronization DHCP Server / Client support Port Trunk support MVR (Multicast VLAN Registration) support Modbus TCP
Network Redundancy	O-Ring Open-Ring O-Chain MRP STP/RSTP/MSTP
Warning / Monitoring System	Relay output for fault event alarming Syslog server / client to record and view events Include SMTP for event warning notification via email Event selection support
<b>LED Indicators</b>	
Power Indicator	Green: Power LED x 2
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) M12 Port Indicator	Green for port Link/Act. Amber for Collision/Duplex indicator.
10/100/1000Base-T(X) M12 Port Indicator	Green for Link/Act. Amber for 100Mbps indicator
<b>Fault Contact</b>	
Relay	Relay output to carry capacity of 3A at 24VDC on M12 connector (5-pin M12 A-coding)
<b>Power</b>	
Redundant Input Power	Dual DC inputs. 12~48VDC on 5-pin M23 connector
Power Consumption(Typ.)	11 Watts
Overload Current Protection	Present
Reverse Polarity Protection	Present

Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	125(W) x 65(D) x 196(H) mm (4.92 x 2.56 x 7.66 inch.)
Weight (g)	1338 g
<b>Environmental</b>	
Storage Temperature	-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
<b>Regulatory Approvals</b>	
EMI	FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)
EMS	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
Safety	EN60950-1
<b>Warranty</b>	5 years

ORing

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