

## HCL 24 Port 10/100Tx Web Managed Switch with one expansion Slot

*HCL-24TWM-1ES is a 24 Port 10/100 TX Web Managed Switch that offers fiber or copper-based gigabit connectivity through its expansion module. It allows configuration of all advanced features of the switch that uses web-based management interface. It comes with enhanced features, such as Port-based Virtual LAN and Port Trunking that can be catered for today's most demanding Ethernet-based switching applications. In addition, the switch comes with one optional expansion slot that caters for a 100/1000 Mbps fiber optical expansion module that can be used to link to remote servers or core switching devices to a maximum distance of 2 kilometers. It is the most ideal workgroup switch for any small and medium enterprises.*

### Key Features

- **Non-blocking Performance** – HCL-24TWM-1ES uses full bandwidth non-blocking architecture for wire-speed operations that allow data to be transferred at higher speed.
- **Segmentation – Port Based VLAN** – It supports Port-based VLAN, which segments entire network into smaller workgroups to improve network performance as the network broadcast is greatly reduced.
- **Monitoring** - The ability to monitor your network traffic through port mirroring enables you to diagnose the network easily. Global system support three mirroring types – RX, TX and both packets. HCL switch support maximum of mirror entries up to 25.
- **Prioritize Network Traffic** - Designed based on IEEE 802.1p prioritization, it supports 8 priority levels ID for high/ low priority queue, to manage critical network traffic. This is very useful for applications such as video and sound streaming, which are bandwidth critical.
- **Ease of Configuration** - Equipped with a web-based configuration management interface, it allows the easy configuration of switch. The web-based management interface enables the easy configuration of advanced functions of the switches such as Addressing Aging Control, Port Operation Mode Control and Port Status Report. The Address Aging Control allows user to specify the time-out duration for maintaining the oldest MAC address entry. The Port Operation Mode enables manual configuration of speed (10/100 Mbps) and transmission (Full/Half Duplex) mode. The Port Status Report shows the summary of the operation modes of all the switch ports.
- **Link Redundancy** - This feature enables users to uplink switches through the Port Trunking feature. It uses 4 ports to daisy chain the next switch together; enabling effective data transfer of up to 800 Mbps between them. It supports seven trunk groups.
- **Plug and Play Operation** - The HCL-24TWM-1ES can operate out of the box with no further configuration needed. Its built-in auto-negotiation feature allows 10/100 Mbps auto-sensing ports to adjust to the speed of the workstations' or servers' Ethernet adapter. Automatic MDI/ MDI-X (N-way Auto-Negotiation) is featured in every port, which allows any type of Category 5 Ethernet cable to be used.

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### **Specifications**

Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 (Ethernet)</li> <li>• IEEE 802.3u (Fast Ethernet)</li> <li>• IEEE 802.3ab – IEEE 802.3z (Gigabit Ethernet)</li> <li>• IEEE 802.3x (Flow Control)</li> </ul>
Ports	<ul style="list-style-type: none"> <li>• 24 port auto-negotiation 10 Base-T/ 100Base-Tx ports</li> <li>• 1 modular expansion slot</li> </ul>
MAC Addresses	<ul style="list-style-type: none"> <li>• 6K</li> </ul>
Switching Buffer	<ul style="list-style-type: none"> <li>• 3M bits</li> </ul>
Switch Fabric	<ul style="list-style-type: none"> <li>• 8.8Gbps</li> </ul>
Packet Forwarding rate	<ul style="list-style-type: none"> <li>• 6.55 Mpps</li> </ul>
Switching Features/ Functionality	<ul style="list-style-type: none"> <li>• Port Mirroring</li> <li>• IEEE 802.1p (Priority Queuing)</li> <li>• Port Based VLAN</li> <li>• IEEE 802.3ad (Link Aggregation)</li> </ul>
Forwarding Method	<ul style="list-style-type: none"> <li>• Store and Forward</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Console Port (RS232) &amp; Web-based Management Interface</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>• Power, Module, Speed (100Mbps), Duplex/Collision, Link/Activity</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>• Current Ratings: 0.5A</li> <li>• Input Voltage Options: 100 - 240 VAC</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• Operating temperature: 0° ~ 40°C</li> <li>• Storage Temperature: - 5° ~ 70°C</li> <li>• Operating Humidity: 10% to 80% relative humidity non – condensing</li> <li>• Storage Humidity: 5% to 90% relative humidity non – condensing</li> </ul>
Emissions	<ul style="list-style-type: none"> <li>• FCC Part 15 Class A, EN 55022, Class A, IEC 61000-3-2, IEC61000-3-3, EN 50082-1, CISPR 22</li> </ul>
Immunity	<ul style="list-style-type: none"> <li>• EN 61000-2, EN 61000-3, EN 61000-4</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• CE Mark</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• H x W x D: 44 x 440 x 161 mm (1.73 x 17.32 x 6.33 inches)</li> </ul>

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### Benefits:

- **Auto MDI/ MDI-X** – HCL-24TWM-1ES supports auto MDI/ MDI-X feature that eliminates common cabling errors by automatically electing the correct type of Ethernet Cables used (Cross or Straight-through)
- **Broadcast Traffic control** – HCL-24TWM-1ES supports Port-based VLAN, which can segment the network into small workgroups and control the network broadcast traffic. It supports VLAN ID up to 255.
- **Ease of Configuration** - Equipped with a web-based configuration management interface, HCL-24TWM-1ES allows the easy configuration of switch
- **Prioritize Network Traffic** – HCL-24TWM-1ES allows prioritizing your network traffic to allow real-time applications to run seamlessly without bottleneck.

### Ordering Information

<i>SAP Code</i>	<i>Part Number</i>	<i>Description</i>
CHCSS012	HCL-24TWM-1ES	HCL 24 Port 10/100 TX Web Managed Switch with one expansion slot
CHCSS006	HCL-2GT-S	HCL 2 Port 1000Base-T module
CHCSS007	HCL-1GT-1GB-S	HCL one port 1000Base-T with one GBIC slot module
CHCSS008	HCL-2FM-SC-S	HCL two port 100Base-FX MM (SC) module
CHCSS013	HCL-1FM-SC-S	HCL one port 100base-FX MM (SC) module
CHCSS009	HCL-GBIC-SX-SC-S	HCL 1000Base-SX (SC) GBIC for HCL-1GT-1GB-S
CHCSS010	HCL-GBIC-LX-SC-S	HCL 1000Base-LX (SC) GBIC for HCL-1GT-1GB-S

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\*\* Information subject to change at HCL's discretion

