

Lantech OS5 Management Functions

Advanced Layer 2 management functions with optional features of IEC 62443, Macsec, L3, L3 Lite, PTP, NAT, and IEC 61375-2-5 ETBN



OVERVIEW

Lantech OS5 management features include advanced Layer 2 management features and Layer 3, Layer 3 Lite, EC61375-2-5 (ETBN)**, R-NAT**, hardware NAT, PTP**, Macsec, IPv6 etc.

Optional Layer3 (incl. NAT, VRRP Aware PIM)

The optional L3 supports enhanced routing functionality, including RIP v1/v2/ RIPng, OSPF v1/v2/v3, DVMRP, PIM, PIMv6, TDRP**, VRRP Aware PIM, VLAN routing, etc.

It also supports NAT functions including Static(one-to-one), Dynamic(many-to-many) and PAT (one-to-many). VRRP Aware PIM is a redundancy mechanism for the Protocol Independent Multicast (PIM) to interoperate with VRRP. It allows PIM to track VRRP state and to preserve multicast traffic upon fail over in a redundant network with virtual routing groups enabled. (See the comparison table below)

Optional TTDP, TRDP (MD Reply) and R-NAT protocol for train application (EN50155 models)

The optional TTDP (Train Topology Discovery Protocol) can assign IP and Gateway IP automatically when the train network topology is changed due to the adjustment of train cars. Exclusive DHCP and VLAN over TTDP can help bind devices with certain IP assignments and segment VLAN in the ECN network. The optional R-NAT (Railway-Network Address Translation) is under TTDP simplifies the management of network address translation between ETB and ECN. It supports TTDP** (Train Topology Discovery Protocol) according to IEC 61375-2-5, and TRDP** (Train Real-time Data Protocol) MD Reply.

Optional IEEE 1588 PTP V2 and 802.1AS for precise time protocol

The Precision Time Protocol (PTP) is a protocol used to synchronize clocks throughout a network. The PTP V2 and gPTP support transparent clock and two-step processing to support 1 microsecond in 6 hops for PTP accuracy and precision. It supports Profiles including 802.1AS (gPTP) / IEEE 1588v2 (default) / Power Profile IEC 61850-9-3 and IEEE C37.238-2017 and three modes (TC: Transparent clock mode; BC: Boundary clock mode and OC: Ordinary clock mode).

The Optional Certified Cybersecurity IEC 62443-4-2** Helps Maintain the Safety and Reliability of Critical Infrastructure and Ensures Operational Continuity

Lantech OS5 platform is designed with the optional certified IEC 62443-4-2 SL2 standard of cybersecurity to prevent threats from network attacks. It includes vulnerability checking, encrypted files, public key management, strong password enforcement, account management, and penetration and stress testing, totaling more than 90 security measures. The optional certified IEC 62443-4-2** defines component-level security requirements, meets a set of security requirements with FR.1 Identification and authentication control, FR.2 Use Control, FR.3 System Integrity, FR.4 Data confidentiality, FR.5 Restricted data flow, FR.6 Timely response to events, and FR.7 Resource availability, to effectively mitigate network threats at the hardware and software level.

SNMP v3 Security Models

SNMPv3 enhances security with three key models. The **User-based Security Model (USM)** provides authentication and encryption, verifying the sender's identity and protecting data. The **View-based Access Control Model (VACM)** manages user access to specific objects based on their security level. The **Transport Security Model (TSM)** uses secure protocols like TLS or DTLS for communication encryption. Together, these models make SNMPv3 implementations highly secure, meeting modern cybersecurity standards for large-scale and high-security projects.

DDoS Security to Protect Switch and Server

OS5 platform is designed with a high standard of security methods to prevent network threads, such as prevention of DDoS attacks, 802.1X security authentication, Dynamic ARP Inspection, IP Source Guard and Port Security. The MAC-based port authentication is an alternative approach to 802.1x for authenticating hosts connected to a port. By authenticating based on the host's source MAC address, the host is not required to run a user for the 802.1x protocol. The RADIUS server that performs the authentication will inform the switch if this MAC can be registered in the MAC-table.

MacSec for advanced security

OS5 switches support MAC security (MACsec) based on IEEE802.3AE standard in association with 802.1X Radius server. MACsec can provide much higher performance for encryption like AES-256 resorting to less CPU utilization. MACsec provides data confidentiality, integrity, and origin authentication to protect transmitted Ethernet data frames in the network with hardware support for MACsec.

Support PXE to verify the switch with the latest or certain version

The switch can check its firmware version during booting time via PXE protocol. If the switch finds any newer version, it will upload automatically.

Support OPEN API document format for Restful API for better switch performance; Auto-provisioning for firmware/configuration update

The switch supports Restful API that uses JSON format to access and use data for GET, PUT, POST and DELETE types to avoid traditional SNMP management occupying CPU utilization. The OPEN API document format for Restful API can greatly improve central management efficiency for various applications including fleet management and AIOT.

It also supports auto-provisioning for switch to auto-check the latest software image and configuration through TFTP server.

Auto feed configuration for swapped new switches for Seamless Network Maintenance

Lantech OS5 switch supports auto-feed configuration features that revolutionize network switch setup and management. It ensures that new and replacement switches automatically receive the correct configuration without manual intervention.

DHCP option 82 & Port based, Mac based DHCP, Option 7/42/60/66, DHCP Snooping, IPv6 ready

The switch can act as DHCP server to assign dedicated IP addresses by MAC or by port (Port based for each switch), it also can assign IP addresses by port for multiple switches with a single DHCP option82 server. DHCP Snooping and Ipv6 DHCP service is are also supported.

Standardized G.8032 ring, 8 MSTI MSTP; MRP ring

Lantech OS5 Ethernet switches feature a standardized G.8032 ring that is compatible with 3rd party G.8032 ring. It supports MSTP that allows RSTP over VLAN for redundant links with 8 MSTI. MRP (Media Redundancy Protocol) is also supported for industrial automation networks.

Enhanced Storm control

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces, so the detection and reaction are more precise and efficient.

Protocol based VLAN; Subnet based VLAN; QinQ, QoS and GVRP

It supports the QinQ, QoS and GVRP for large VLAN segmentation. The protocol-based VLAN processes traffic based on protocol. It filters IP traffic from nearby end-stations using a particular protocol such as IP, IPX, ARP by Ethernet-types in a Hex value. Subnet based VLANs group traffics into logical VLANs based on the source IP

address and IP subnet. The above features can help to build VLAN in the network mixed with managed and un-managed switch as to define packets to which VLAN group based on protocol or subnet.

Hybrid Redundant Protocol Support

Enables concurrent operation of G.8032 ERPS (Ethernet Ring Protection Switching) and 802.1w RSTP (Rapid Spanning Tree Protocol), it provides sub-50ms fault recovery and high availability for the G.8032-protected ring topology also utilizes RSTP on non-ring ports to provide standard loop prevention for tree or mesh segments. OS5 switch delivers a robust, two-tiered redundancy solution, combining high-speed ring convergence with standard Spanning Tree protection for access ports.

IGMPv3, GMRP, router port, MLD Snooping, static multicast forwarding

It supports IGMPv3, GMRP, router port, MLD snooping and static multicast forwarding binding by ports for video surveillance applications.

Support NTP, SNTP server with built-in RTC clock source with golden capacitor

The support of NTP/SNTP can synchronize system clock in Internet. Lantech OS5 switch supports NTP server & server/client mode. The switch also builds in a real-time clock (RTC) for measurement of the passage of time with a NTP server.

Out-Of-Band management

OOB management allows a separate and secure method to access and manage the switch even when the primary network is inaccessible. (-OOB model)

Enhanced environmental monitoring for switch inside information

The enhanced environmental monitoring can detect switch overall temperature, total power load, actual input voltage and current. It can send the SNMP traps alert when abnormal.

Snapshot switch information for trouble-shooting analysis

With the distinctive Snapshot feature to gather switch data including port statistics, system running information, configuration and event log at the point of time or by scheduling to address switch issues and analyze the root cause in a timely manner.

Dual NTP Server Synchronization

The switch supports dual-source NTP synchronization to ensure continuous clock accuracy. By configuring Primary and Secondary NTP servers, the switch enables automated failover if the main source fails. This redundancy prevents clock drift, maintaining precise time-stamped logs across the network infrastructure.

10G Copper Cable Monitoring function

The 10G Copper Health Diagnostic tool proactively monitors 10G copper port SNR Margin data from chipset across all cable pairs to ensure optimal 10Gbps performance. Integrated into the Web UI, it enables administrators to proactively identify signal degradation caused by electromagnetic interference, faulty connectors, or excessive cable runs that may trigger automatic speed reductions, provide the rapid troubleshooting and ensuring optimal network reliability.

Optional LantechView** for Lantech devices maintenance

LantechView can automatically discover Lantech devices on the network, providing seamless configuration management. It supports both single-device operation and batch import/export of configurations across multiple IP subnets and VLAN areas, enhancing network efficiency and management.

Additionally, LantechView also features firmware management capabilities, allowing batch verification and simultaneous upgrades to the latest firmware versions, ensuring consistency across all devices.

To learn more about Lantech LantechView software solutions, please refer to [Lantech LantechView Software Datasheet](#)

L2 SPECIFICATIONS

Manageability / Network			switch is booting-up
Management (IPv4/IPv6)	SNMP v1 v2c, v3/ Web/ Telnet/ SSH/SSL/ OPEN API document format for Restful API	Auto-provisioning	Auto check firmware image and configuration
User-friendly UI	<ul style="list-style-type: none"> Topology View (Auto topology drawing/topology demo) Complete CLI for a professional setting 	LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN
SNMP MIB(IPv4/IPv6)	<ul style="list-style-type: none"> MIBII MIB SNMP MIB Bridge MIB IF MIB RMON MIB Alarm MIB Private MIB 	CDP	Cisco Discovery Protocol for topology mapping
SNMP Trap(IPv4/IPv6)	Up to 5 trap stations; trap types including: <ul style="list-style-type: none"> Device cold start Authorization failure Port link up/link down D/I/D/O open/close Topology change (ITU ring) Power failure Environmental abnormal 	Remote Admin (IPv4/IPv6)	Supports 25 IP addresses that have permission to access the switch management and to prevent unauthorized intruder
SNMPv3	<ul style="list-style-type: none"> User-based Security Model (USM) View-based Access Control Model (VACM) Transport Security Model (TSM) 	OOB (-OOB model)	Through Out-Of-Band management port
Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade; USB firmware update	ITU G.8032	<ul style="list-style-type: none"> Support ITU G.8032 for Ring protection in less than 20ms for self-heal recovery (single ring topology) Standard .8032 ring configuration with ease
Configuration import and export	Supports editable configuration file for system quick installation; Support factory reset ping to restore all settings back to factory default	Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI; Supports BPDU guard/Root guard/Aggregation port ERPS and STP can operate simultaneously
DHCP(IPv4/IPv6)	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP; DHCP Snooping, DHCP Option 66; DHCP Option 7/42/60/66/67/PXE	Protection	<ul style="list-style-type: none"> Miss-wiring avoidance Node failure protection Loop protection
Mac-based DHCP	Assign IP address by Mac in Server (IPv4/IPv6)		
DNS(IPv4/IPv6)	Provide DNS client feature and can set Primary and Secondary DNS server		
System Log (IPv4/IPv6)	Supports System log record and remote system log server		
PXE client	Check firmware version when		

	<ul style="list-style-type: none"> IEEE 802.1X and dynamic secure association key (SAK) security mode Non-encryption of the 802.1Q Tag header 		
Prevention of DDoS/DoS attack	<ul style="list-style-type: none"> Suspicious Packets Dos/DDoS Attacks Network DoS/DDoS Attacks 		
Network Security (IPv4/IPv6)	<p>Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.</p> <p>802.1X access control for port based and MAC based authentication/static MAC-Port binding and user based</p> <p>Ingress/Egress ACL L2/L3</p> <p>SSL/SSH v2 for Management</p> <p>HTTPS for secure access to the web interface</p> <p>TACACS+ for Authentication</p> <p>Encryptable export configuration</p>		
Login Security (IP4/IP6)	<p>Supports IEEE802.1X</p> <p>Authentication/RADIUS</p>		
Switching			
VLAN	<p>Port Based VLAN</p> <p>IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096)</p> <p>GVRP, QinQ, QoS (Max 32 entries; Max 7 entries when QoS by VLAN)</p> <p>Protocol based VLAN</p> <p>Ipv4/Ipv6 Subnet based VLAN</p>		
IGMP	<p>Support IGMP snooping v1, v2, v3; Supports IGMP static route; 1024 multicast groups; IGMP router port; IGMP query; GMRP</p>		
MLD Snooping	Support Ipv6 Multicast stream		
Static multicast forwarding	<p>Static multicast forwarding</p> <p>forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application</p>		
QoS			
Quality of Service	The quality of service determined by port, Tag and Ipv4 Type of service, Ipv4 Differentiated Services Code Points – DSCP		
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues		
		Bandwidth Control	<p>Support ingress packet filter and egress* packet limit.</p> <p>The egress* rate control supports all of packet type.</p> <p>Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all types of packet.</p> <p>The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter and the egress* packet limit.</p>
		Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups
Port			
	Port Mirror		Support 3 mirroring types: "RX, TX and Both packet"
	Enhanced Storm Control		prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces
System			
	Enhanced Environmental Monitoring		System status for actual input voltage, current, total power load and ambient temperature to be shown in GUI and sent alerting if any abnormal status
Time Management			
	NTP/SNTP(IPv4/IPv6)		<p>Supports NTP/SNTP to synchronize system clock in Internet</p> <p>Supports NTP server & server/client mode</p> <p>NTP server support Primary and Backup in client mode</p> <p>Support NTP Time Re-correct without battery</p> <p>Built-in RTC clock can be clock source for NTP server (RTC is subject to model variant)</p>
	PTP**		<p>IEEE1588 PTP V2, IEEE802.1AS gPTP, IEC 61850-9-3</p> <p>Transparent clock and two step processing</p>
	Diagnostic		Support Ping, ARP table and DDM information
Train Protocol (EN50155 models)			
	ECN		Complies with IEC 61375-3-4 (ECN) standard.

IPv6	
Managed	Neighbor Discovery v6
Multicast	MLDv1/v2 (RFC 2710)
DHCP	DHCPv6 Client (RFC 3315), DHCPv6 Snooping, DHCPv6 Relay (RFC 3315), DHCPv6

Diagnostic	Server (RFC 3315) Ping v6, IPv6-Tracert, IPv6-TFTP
	*Future release
	**Optional
	***Annual license

L3Lite(L3L) & L3 SPECIFICATIONS

Unicast Routing	
RIP v1/v2 (L3 only)	Support RIP Redistribute <ul style="list-style-type: none"> • Static routes • Route-map • Metric Support Enhanced Redistributing Routing Protocols <ul style="list-style-type: none"> • Between routing protocols (RIP, OSPF, EIGRP, BGP). • Directly connected routes can be redistributed into a routing protocol. • Support OSPF and RIP running simultaneously in the same system (but need to be in different interfaces) Support Equal-cost multi-path routing (ECMP) for RIP
OSPF	Support OSPF Area <ul style="list-style-type: none"> • Standard Area • Stub Area • Stub no-summary Area Support Equal-cost multi-path routing (ECMP)
Static Route	Up to 32
L3 port	Physical port, Aggregation port
Multicast Routing	
DVMRP (L3 only)	Distance Vector Multicast Routing Protocol (DVMRP) is a routing protocol used to share information between routers to facilitate the transportation of IP multicast packets among networks.
PIM (Protocol Independent Multicast)	PIM-SM (Sparse Mode) PIM-BSR (Bootstrap) PIM-DM (Dense Mode) PIM-SSM (Source-Specific Multicast Mode)
VRRP Aware	redundancy mechanism for the Protocol

PIM	Independent Multicast (PIM) to interoperate with VRRP
Routing	
VRRP	For Routing Redundancy Combine Max. 2 gateways as single virtual gateway
VLAN	
Inter-VLAN routing	Support dynamic routing and static routing
Router-on-a stick	Route traffic between different VLAN groups via VLAN trunking port
NAT	
Hardware NAT	Max 384 clients
Static NAT	Max 128 connections; 1 to 1
PAT (port address translation)	Max 256 connections; 1 to many; many to 1; Port forwarding
Train (EN50155 models)	
TTDP**/TRDP**	TTDP (Train Topology Discovery Protocol) complies with IEC 61375-2-5 (ETBN) standard. TRDP MD Reply
DHCP for TTDP**	Support Option 66/82
R-NAT** (OS5-L3/L3L only)	Support Railway-Network Address Translation
Others	
IP based port	Support
IPv6 Routing	
Unicast Routing	Inter-VLAN routing, RIPng, OSPFv3
Multicast Routing	PIMv6 (PIM-SM, PIM-SSM, PIM- BSR)
Redundant	VRRPv3

*Future release

**Optional

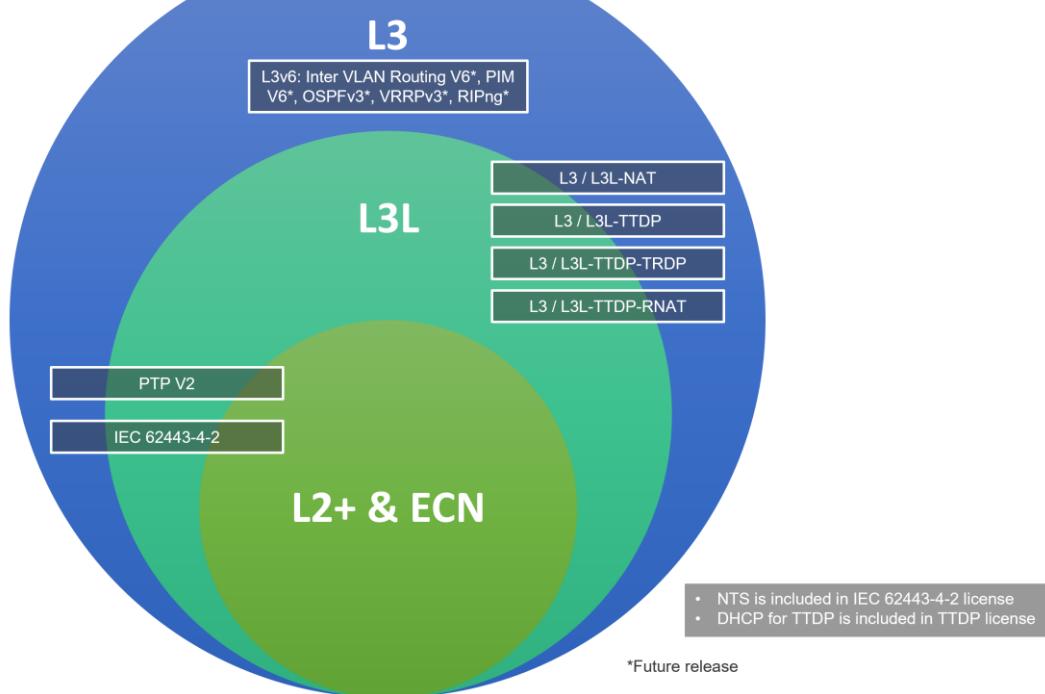
SERIES COMPARISON

*Future release	OS5			OS4 / OS3			OS2PRO	OS2	OS1
	L3	L3 Lite	L2+	L3	L3 Lite				L2+
**Optional									
Static Route	●	●		●	●				
Inter VLAN Routing	●	●		●	●				
Unicast Routing: RIP v1/v2	●			●	●				
Unicast Routing: OSPF v1/v2	●			●	●				
IPv6 Routing: RIPng / OSPFv3	●**			●	●				
Static Multicast Routing	●			●	●				
Multicast Routing: DVMRP (IPv4)	●			●	●				
Multicast Routing: PIM (DM) (IPv4)	●			●	●				
Multicast Routing: PIM (SSM) (IPv4)	●			●	●				
Multicast Routing: PIM (SM) (IPv4)	●			●	●				
Multicast Routing: PIM (BSR) (IPv4)	●			●	●				
IPv6 Multicast Routing: PIMv6	●**			●	●				
VRRPv2	●			●	●				
VRRP aware PIM	●			●	●				
VRRPv3 (IPv6)	●*			●	●				
Hardware NAT: Static NAT/ PAT	●**	●**		OS4 only**	OS4 only**			Software NAT	
MACsec	●	●							
IEC 62443-4-2	●**	●**	●**	OS3 only**	OS3 only**	OS3 only**	●**		
Prevention of DDoS/DoS attack	●			●	●	●			
IP based port	●			●	●	●			
Rescue Mode									
ACL	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress Only	Ingress Only	Ingress/Egress
Port Security									
IPSource Guard	●	●	●	●	●	●			
Dynamic ARP Inspection	●	●	●	●	●	●			
Remote (limitation of accessing interface)	●	●	●	●	●	●	●	●	
admin (Access Restriction Rules (25))	●	●	●	●	●	●	●	●	
Login Security (TACACS+)	●	●	●	●	●	●	●	●	
Login Security (RADIUS)	●	●	●	●	●	●	●	●	
SSH	●	●	●	●	●	●	●	●	
SSL Certificate Management	●	●	●	●	●	●	●	●	
Perpetual / Fast PoE	●	●	●						
PTP	●**	●**	●**	(P)GS-R6416XF**	(P)GS-R6416XF**	(P)GS-R6416XF**	gPTP**		
NTP/NTS (Network Time Security)	●**	●**	●**	●	●	●	●**		
PXE application	●			●	●	●			
TTDP (IEC 61375-2-5)	●**	●**	●**	●	●	●			
R-NAT (built-in IEC 61375-2-5)	●**	●**	●**	OS4 only**	OS4 only**				
DHCP for TTDP	●**	●**	●**	●	●				
TRDP (IEC 61375-2-3)	●**	●**	●**	●	●				
QoS under 61375-3-4	●	●	●	●	●	●	●	●	●
*Future release	OS5			OS4 / OS3			OS2PRO	OS2	OS1
**Optional	L3	L3 Lite	L2+	L3	L3 Lite			L2+	
OOB (Out of Band) Service	By model	By model	By model						
OPEN API document format for Restful API	●	●	●						
SNMP V1 / V2c / V3	●	●	●	●	●	●	●	●	●
SNMP V3 USM / VACM / TSM	●	●	●	●	●	●	●	●	●
CDP	●	●	●	●	●	●	●	●	●
Firmware upgrading	WEB/SFTP/FTP	WEB/SFTP/FTP	WEB/SFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP
Configuration file import/export	WEB/SFTP/FTP	WEB/SFTP/FTP	WEB/SFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP
Auto-Provisioning	●	●	●	●*	●*				
Snapshot	●	●	●	●	●	●	●	●	
Auto-Feed	●	●	●	●	●	●	●	●	
Dual Image				●	●	●	●	●	
Environment Monitoring	●	●	●	●	●	●	●	●**	●**
Digital Input/ Output	●	●	●	●	●	●	●	●	
Triggered by event of environment	●	●	●	●	●	●	●	●**	●**
Triggered by event of SFP DDM	●	●	●	●	●	●	●	●	●
Ping	●	●	●	●	●	●	●	●	
ARP	●	●	●	●	●	●	●	●	
Topology View	●	●	●	●	●	●	●	●	
RSPAN	●	●	●	●	●	●	●	●	
Port Mirroring	●	●	●	●	●	●	●	●	
VLAN based QoS	●	●	●	●	●	●	●	●	
MSTP	●	●	●	●	●	●	●	●	
MRP	●	●	●	●	●	●	●	●	
Loop Protection	●	●	●	●	●	●	●	●	
BPDU Guard	●	●	●	●	●	●	●	●	
Dual Homing	●	●	●	●	●	●	●	●	
Proprietary redundant protocol	ITU-Ring Standard mode	ITU-Ring Standard mode	ITU-Ring Standard mode	ITU-Ring Enhance mode (OS3 supports Standard mode)	ITU-Ring Enhance mode (OS3 supports Standard mode)	ITU-Ring Enhance mode (OS3 supports Standard mode)	ITU-Ring Enhance mode	ITU-Ring Enhance mode	ITU-Ring Enhance mode
Protocol Based VLAN	●	●	●	●	●	●			
Subnet Based VLAN	●	●	●	●	●	●			
QinQ VLAN	●	●	●	●	●	●			
GVRP	●	●	●	●	●	●			
IGMP router port	●	●	●	●	●	●			
MLD Snooping	●	●	●	●	●	●			
GMRP	●	●	●	●	●	●			
DHCP by VLAN	●	●	●	●	●	●			
MAC based DHCP	●	●	●	●	●	●			
Option82 DHCP Relay	●	●	●	●	●	●			
Option 7/61/66	Option 7/66	Option 7/66	Option 7/66	Option 7/61	Option 7/61	Option 7/66	Option 7/61	Option 66 only	Option 66 only
DHCP Snooping	●	●	●	●	●	●	●	●	
IPv6 DHCP Server	●	●	●	●	●	●			
*Future release	L3	L3 Lite	L2+	L3	L3 Lite			L2+	
**Optional	OS5			OS4 / OS3			OS2PRO	OS2	OS1

ORDERING INFORMATION

- **OS5 – IEC62443-4-2** P/N: **9000-124**
OS5 software platform with IEC62443-4-2 Cybersecurity features(1 year)
- **OS5 – IEC62443-4-2** P/N: **9000-1241**
OS5 software platform with IEC62443-4-2 Cybersecurity features(5 years)
- **OS5 – PTP** P/N: **9000-126**
OS5 software platform IEEE 1588 PTP V2 features
- **OS5 – L3L** P/N: **9000-119**
OS5 software platform upgrade to Layer 3 Lite platform
- **OS5 – L3L – NAT** P/N: **9000-120**
OS5 software Layer 3 Lite platform with NAT function
- **OS5 – L3L – RAIL** P/N: **9000-121**
OS5 software platform with IEC-61375-2-5 ETBN (Ethernet Train Backbone Networks) function w/R-NAT, TTDP & TRDP MD reply (under L3L)
- **OS5 – L3** P/N: **9000-122**
OS5 software platform with Layer 3 functions
- **OS5 – L3 – NAT** P/N: **9000-123**
OS5 software Layer 3 platform with NAT function
- **OS5 – L3 – RAIL** P/N: **9000-129**
OS5 software platform with IEC-61375-2-5 ETBN (Ethernet Train Backbone Networks) function w/R-NAT, TTDP & TRDP MD reply (under L3)
- **OS5 – L3v6*** P/N: **9000-128**
OS5 software platform with L3v6 (Inter VLAN Routing V6, OSPFv3, VRRPv3 & RIPng) (under L3)

OS5 Generation



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The revised authority rights of product specifications belong to Lantech Communications Global Inc.
In a continuing effort to improve and advance technology, product specifications are subject to change without notice.