

VALTORIS INDUSTRIAL ETHERNET SWITCHES MASTER PORTFOLIO

Unmanaged Edge Hardware | Deterministic OT Forwarding | DIN-Rail Armor | -40°C to +75°C

VALTORIS

Specification Matrix	VT-SW5P-4TPOE 100M PoE+ Edge	VT-SW10GP Gigabit PoE+ Flagship	VT-SW8PN 100M PROFINET QoS	VT-SW8GPN Gigabit PROFINET	VT-SW6EC 6-Port EtherCAT Star Hub
1. CORE OT PROTOCOL & PROCESSING ARCHITECTURE					
Primary Optimization	Active PoE+ (802.3at)	Active PoE+ (802.3at)	PROFINET RT (CC-A)	PROFINET RT (CC-A)	EtherCAT Motion Hub
Deterministic Engine	PSE Auto-Handshake	PSE Auto-Handshake	802.1p QoS Priority	802.1p QoS Priority	Hardware ESC Chip
Time Synchronization	Standard Unmanaged	Standard Unmanaged	Transparent Pass-thru	Transparent Pass-thru	Distributed Clocks (DC)
2. INTERFACE & FORWARDING CAPACITIES					
Total Port Count	5 Ports (4 PoE+)	10 Ports (8 PoE+)	8 Copper RJ45	8 Copper RJ45	6 Copper RJ45 (1 In, 5 Out)
Uplink Interface	1 x 100M RJ45	2 x 1000M SFP Slots	N/A (All 10/100M)	N/A (All 1000M)	Cascading supported
Jumbo Frame Size	1.6 kBytes	9 kBytes	2 kBytes	9 kBytes	Standard EtherCAT frame
3. ELECTRICAL & POWER SPECIFICATIONS					
Input Voltage Range	DC 48~57V (Redundant)	DC 48~52V (Redundant)	Dual Redundant DC 9~60V / AC 24V (Non-Polarity)		
Power Allocation	120W Max Budget	240W Max Budget	< 1.4W (Self draw)	< 3.2W (Self draw)	< 3.5W (Self draw)
4. MECHANICAL ARMOR & RELIABILITY STANDARDS					
Operating Temperature	-40°C to +75°C (Passively Cooled Fanless Architecture)				
Enclosure Protection	IP40 High-Strength Corrugated Aluminum Alloy Housing				
EMC Immunity	Surge L2 / ESD L3	Surge L4 / ESD L4	Surge L4 / EFT L4	Surge L4 / EFT L4	Surge L3 / ESD L3
Certifications	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS, UL	CE, FCC, RoHS, ECAT Tested