

INDUSTRIAL ETHERCAT JUNCTIONS SELECTION GUIDE

Dedicated Hardware ESC | Distributed Clocks (DC) | DIN-Rail | -40°C to +75°C

VALTORIS

Model Series	VT-SW3EC 3-Port EtherCAT Branch Module	VT-SW6EC 6-Port EtherCAT Hub / Junction
CORE PROCESSING & SYNCHRONIZATION		
EtherCAT Slave Controller (ESC)	Built-in (Pure Hardware Processing)	Built-in (Pure Hardware Processing)
Distributed Clocks (DC)	Supported (Nanosecond Jitter)	Supported (Nanosecond Jitter)
Supported Topologies	Line, Tree, Star	Line, Tree, Star
Max Slave Nodes Per Segment	65,535	65,535
INTERFACE SPECIFICATIONS		
Total EtherCAT Ports	3 x 100Base-TX RJ45	6 x 100Base-TX RJ45
Port Distribution	1 x IN, 2 x OUT	1 x IN, 5 x OUT
POWER & ENVIRONMENTAL		
Input Voltage (Non-Polarity)	DC 9~60V / AC 24V	DC 9~60V / AC 24V
Power Consumption	< 1.5W @ DC24V	< 3.5W @ DC24V
Operating Temperature	-40°C to +75°C	
Housing & Protection	High-strength Aluminum Alloy, Fanless IP40	
Dimensions (W x D x H)	102 x 33 x 78 mm	102 x 46 x 78 mm
INDUSTRY CERTIFICATIONS & RELIABILITY		

Model Series	VT-SW3EC 3-Port EtherCAT Branch Module	VT-SW6EC 6-Port EtherCAT Hub / Junction
EMC Immunity (ESD / Surge / EFT)	Level 3 / Level 3 (6kV on Net Port) / Level 3	Level 3 / Level 3 / Level 3
Certifications	CE, FCC, RoHS, EtherCAT Conformance Tested	

