

Valtoris delivers deterministic, industrial-grade communication hardware. Built for harsh environments (-40°C to 85°C), our portfolio bridges the gap between legacy operational technology (OT) and modern IT cloud infrastructure.

1. Industrial Ethernet Switches

SERIES / MODEL	PORT CONFIGURATION	CORE CAPABILITIES	IDEAL APPLICATION
PROFINET Series Unmanaged DIN-Rail Switch	5 and 8 Ports (10/100/1000Base-T)	RT Priority QoS Dual Redundant Power (Non-Polarity)	Siemens PLC networks, automated factory floors.
VT-SW-EC Series EtherCAT Junction Module	3 to 6 Ports (100Base-TX)	Nanosecond Delay ESC Hardware, Distributed Clocks (DC).	CNC robotics, precise servo drive synchronization.
Industrial PoE Series Power Over Ethernet	5 to 10 Ports (Up to 240W Budget)	IEEE 802.3af/at, Dual DC48-57V input, Gigabit SFP Uplinks.	IP surveillance cameras, wireless APs in remote cabinets.

2. Industrial Wireless & Cellular

SERIES / MODEL	NETWORK INTERFACE	CORE CAPABILITIES	IDEAL APPLICATION
VT-LTE400 Series Industrial Cellular Router	Global 4G LTE 1x SIM, WAN/LAN	IPsec and WireGuard, Firewall, WiFi Mesh & Relay.	Remote CCTV, ATM/Kiosks, unmanned substations.
VT-DTU500 Series Cellular Modem (DTU)	4G LTE CAT1 / CAT 4 RS232/ RS485	MQTT / JSON Direct-to-Cloud telemetry, Modbus Polling.	Smart meters, pipeline monitoring, AWS/Azure IoT.
LoRa / Zigbee Series Wireless Mesh Gateways	LoRaWAN / Zigbee Ethernet / RS485	High penetration, low-power mesh networking.	Smart agriculture, large-scale warehouse sensing.

3. Serial Connectivity & Gateways

SERIES / MODEL	SERIAL INTERFACES	PROTOCOL ENGINE	IDEAL APPLICATION
1CH to 32CH-ETH Serial Device Servers	1 to 32 Ports (RS232/485/422)	Modbus RTU to TCP Virtual COM, Multi-Host.	Upgrading legacy serial PLCs to modern TCP/IP networks.
VT-WF100 / WF110 Serial to Wi-Fi	1 Port RS485/232 2.4GHz Wi-Fi	WPA2-PSK Security, Transparent Bridging.	AGVs (Automated Guided Vehicles), factory floor retrofits.
Isolated RS485 Hubs Active Splitters	2 to 8 Ports RS485 (Star Topology)	2500V Optical Isolation Active signal regeneration.	Eliminating ground loops and signal reflections in long buses.

4. Remote I/O & Embedded Modules

SERIES / MODEL	I/O DENSITY	CORE CAPABILITIES	IDEAL APPLICATION
4CH / 8CH-IO Series Modbus Edge Controllers	8 DI / 8 DO / 8 AI (4-20mA, 0-10V)	MQTT Edge Computing Pulse counting, DO Hold.	Direct sensor data acquisition, remote pump/valve control.
Embedded Modules UART to Ethernet	UART / TTL Integrated RJ45	Zero-code TCP/IP stack, 921600bps speed.	OEM hardware development, drop-in PCB integration.
VT-CHIP100 Single-Chip SoC	Integrated MAC/PHY ~25mA Power	Ultra-Compact footprint	Medical instruments, smart meters requiring embedded LAN.

5. Industrial Fiber Converters

SERIES / MODEL	PHYSICAL INTERFACES	CORE CAPABILITIES	IDEAL APPLICATION
Fiber to Ethernet Media Converters	RJ45 to SC (Single-Mod)	Link Fault Pass-Through, 10/100M Auto.	Extending LAN beyond 100m copper limits (up to 120km).
Serial to Fiber Ring/Point-to-Point	RS232/485/422 to Fiber	Total EMI Immunity	High-voltage substations, highway tolling systems.

The Industrial Lifecycle Pledge

10-Year Supply Continuity: We archive hardware designs to ensure zero sudden EOL disruptions.
Global Compliance: All standard models hold CE, FCC, and RoHS certifications.
OEM/ODM Services: Contact our engineering team for custom enclosures, firmware, or PCB redesigns.