Tensor-i20

Common Specifications (shared by all four models)

Category	Shared Specification
Performance	ARM or x86 industrial-grade processor, hardware watchdog, low-power design
CPU	Intel 9th gen. Xeon | Core i7 | i5 | i3 | Celeron, up to 45W
Memory & Storage	2–8 GB RAM, 8–64 GB eMMC, microSD expansion
Operating System	Linux-based OS, container support (Docker/OCI), OTA updates
Networking Protocols	IPv4/IPv6, DHCP, DNS, VLAN 802.1Q, static routing, firewall, VPN (IPsec/OpenVPN/WireGuard)
Security	Secure boot, TPM/crypto chip, TLS 1.2/1.3, role-based access control
Industrial Features	Wide temperature range (-20°C to +70°C), DIN-rail mount, surge protection
Power Input	12–48 VDC wide-range input
Management	Web UI, REST API, SNMP, remote fleet management
Certifications	CE, FCC, RoHS, industrial EMC compliance

Differences Between the Four Models

Feature Category	Multi-LAN Model	Multi-COM Model	Multi-PoE Model	Multi-IoT Model
Primary Function	High-density Ethernet routing/switching	Serial communication gateway	Power-over-Ethernet networking	IoT protocol aggregation
LAN Ports	4–8× Gigabit LAN/SFP	2× LAN	4× PoE/PoE+ ports	2× LAN
PoE Support	No	No	Yes (IEEE 802.3af/at)	Optional
Serial Ports	Optional (1–2)	4–8× RS-232/485	Optional (1)	2× RS-485
IoT Protocols	Basic MQTT	Modbus RTU/TCP	Basic MQTT	Full IoT stack: MQTT, OPC-UA, LoRaWAN, Zigbee, BLE
Wireless Options	Optional Wi-Fi/LTE	Optional LTE	Optional Wi-Fi	Wi-Fi, LTE/5G, BLE, optional LoRa
Power Budget	Standard	Standard	High PoE budget (60–120 W)	Standard
Use Case	Network segmentation, industrial LAN	Serial device integration	IP cameras, sensors, PoE devices	Multi-protocol IoT gateway