S. No	Parameter	Specification
1	**Display**	• Integrated **15-inch TFT-LCD display** • Resolution: **1024 × 768 (XGA)** • Brightness: **≥250 nits** • Viewing Angle: **Wide viewing angle** • Display Interface: **LVDS / HDMI** • Panel Mount / Rack Mount compatible • Designed for **continuous industrial operation**
2	**Processor (CPU)**	• Chipset: **Intel® Industrial-grade chipset** • Processor Options: • **Intel® Core™ i5** • **Intel® Core™ i7 (6th / 7th Generation or higher)** • Base Clock Speed: **Up to 3.4 GHz** • Multi-core architecture for high-performance computing • Supports mission-critical and real-time applications
4	**Memory**	• Installed Memory: **8/16/32 GB DDR4/DDR5** • Expandable up to: 64 **GB DDR4/DDR5** • Industrial-grade memory modules • High reliability for 24/7 operation
5	**Storage**	• Primary Storage Options: • **256 GB / 512 GB / 1 TB SSD** • Optional 2 **TB NVMe** • Interface: **SATA** • Supports shock-resistant SSD for rugged environments • Fast boot and data access
7	**Graphics Card**	• Dedicated Graphics Support: • **NVIDIA® GeForce – 2 GB VRAM** (or equivalent) • Supports high-resolution display rendering • Suitable for visualization, control panels, and monitoring applications

8	I/O Ports & Interfaces	**USB Interfaces**
		  • **USB 3.0**: 2 × Front
		  • **USB 2.0**: 3 × Rear (1 port reserved for internal use)
		Serial Interfaces
		  • **RS-232**: 1 × Internal
		  • **RS-422**: 1 × Rear (via converter if required)
		Video Output
		  • **HDMI**: 1 × Rear
		Other Interfaces
		  • Panel mount connectors supported
		  • All mating connectors with **1-meter cables** provided

11	LAN / Network Card	• **1 × Gigabit Ethernet (10/100/1000 Mbps)** • Rear panel mounted Ethernet interface • Supports industrial networking and secure communication
12	Joysticks & Control Interfaces (Optional / C.F.E)	• **2 × Industrial Joysticks** (Customer Furnished Equipment) • **2 × Panel Encoders** • Joystick Control Card support • USB to RS-422 Converter supported • Fully integrated into front panel design
13	Operating System	• **Windows® 10 Pro/11 Pro (Licensed)** • Optional support for **Linux OS** • Pre-installed and tested

14	Mechanical & Construction	• Form Factor: **19-inch Rack Mount**
		• Height: **8U**
		• Construction: **Sheet metal with rugged bending**
		• Finish:
		  • Inside: **Chromatization**
		  • Outside: **Semi-Glossy paint**
		• Non-magnetic fasteners used

15	Environmental Specifications	• Operating Temperature: **0°C to +55°C** • Storage Temperature: **-10°C to +65°C** • Cooling: **Exhaust & suction fans with rear grills**
16	Power Supply	• Input Voltage: **85–264 VAC** • Frequency: **50 Hz** • Single Phase AC • Industrial-grade AC-DC power supply
17	Front & Rear Panel Features	• Round **Power ON/OFF switch with indicator** • Engraving on front & rear panels • Keyboard & Mouse: **USB interface** • Keyboard & Mouse Tray: **1U height, 19-inch with slides**
18	Compliance & Documentation	• Factory Acceptance Test (FAT) • Acceptance Test Procedure / Results (ATP / ATR) • Certificate of Compliance (COC) • Operation Manual • Technical & Maintenance Manual • Wiring & Block Diagrams provided

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