

Strong Build. Fast Labels. Bigger Impact.

Industrial Label Printer



203 DPI -ILP5210 300 DPI -ILP5308

Today's industries demand more speed, accuracy, and reliability than ever before. Can your printing keep up without disruption? The TVSE ILP 5210 / ILP 5308 gives you the right mix of features at the right value, backed by the durability and trust of TVS Electronics. Experience faster print speeds, crisp high-resolution labels, broad media compatibility, and a rugged design that fits seamlessly into your workspace. Need more flexibility? Choose from options like Wi-Fi connectivity and GPIO for automation. And with multi-emulation support, secure integration, and easy manageability, your operations run without compromise.

Get the Value with TVSE

Engineered for Real-World Demands

The pace of business today leaves no room for error, downtime, or inefficiency. Enterprises across logistics, manufacturing, healthcare, retail, and quick commerce need a printer that keeps up with rising volumes and shrinking timelines without compromise. The TVSE ILP 5210 and ILP 5308 are built with exactly that in mind. Designed to deliver the right balance of speed, quality, and reliability, they provide everything an enterprise printer should, while keeping total cost of ownership low.

Smarter Design for Simpler Operations

Ease of use is at the heart of the ILP series. Operators are often not technical experts, so setup and media handling must be intuitive. With a 2.5" LCD and Real-Time Clock (RTC), users can instantly view printer status, error alerts, and job progress. The display makes troubleshooting faster, reducing downtime. Loading labels is simple, whether it's rolls, fanfold, die-cut, notched, or black mark media. The printers adapt to your labeling workflow, minimizing training needs and ensuring consistent results shift after shift.

High Performance that Translates to Productivity

Performance isn't only about print speed; it's about how consistently a printer can perform under pressure. With 10 ips at 203 dpi (ILP 5210) and 8 ips at 300 dpi (ILP 5308), you get both throughput and clarity. Every barcode and line of text is sharp, scannable, and compliant with industry standards. And with 256 MB RAM and 256 MB Flash memory, the ILP series is capable of handling high-volume, complex print jobs effortlessly, preventing bottlenecks in mission-critical workflows.

Adaptable to Any IT Environment

Enterprises often hesitate to switch printers because of the cost of system reprogramming. The ILP series eliminates this concern with broad emulation support (ZPL, ZPL-II, TSPL, EPL2, DPL). Whether replacing Zebra, TSC, or other legacy printers, the ILP printers plug directly into existing systems without requiring label redesigns or code changes. This flexibility lowers IT workload, speeds up deployment, and ensures smooth continuity of operations.

Connectivity Without Boundaries

In modern enterprises, printers must connect with a variety of systems and devices. The ILP series makes integration seamless with USB-B, USB Host, RS232, Ethernet, and Bluetooth as standard options, plus Wi-Fi and GPIO as optional add-ons. From wired installations in manufacturing lines to wireless setups in expansive warehouses, the ILP series adapts to your environment. GPIO support ensures readiness for Industry 4.0 automation — allowing direct connection to conveyors, packaging lines, or labeling equipment for end-to-end efficiency.

Compliant, Traceable, Future-Ready

Global industries are increasingly driven by compliance and traceability. The ILP series ensures businesses meet these requirements by supporting an extensive range of 1D and 2D barcodes, including QR, DataMatrix, MaxiCode, GS1, and more. This flexibility makes the printers suitable for pharmaceuticals, food, healthcare, automotive, and electronics industries where accuracy and compliance are non-negotiable.

Industrial Strength You Can Rely On

A printer that fails under pressure can bring an entire workflow to a halt. The ILP series prevents this with its rugged metal construction, built for 24/7 operation in demanding industrial environments. Whether exposed to dust in warehouses, high activity on factory floors, or heavy use in logistics hubs, the ILP 5210 and ILP 5308 are engineered to endure. Their compact footprint also ensures they fit comfortably in space-constrained work areas, offering durability without bulk.

Minimized Downtime, Maximized Uptime

Operational efficiency comes down to uptime. The ILP series reduces interruptions with a 450-meter ribbon capacity that minimizes consumable changes. Coupled with high memory and fast processing, this ensures uninterrupted workflows even during peak demand. Less downtime translates directly to higher productivity, reduced labor costs, and greater profitability.

A Strategic Choice for Growth

The ILP 5210 and ILP 5308 are more than just printers — they are long-term assets for businesses looking to scale. With their adaptability, industrial-grade design, and enterprise-ready features, they provide lasting value and future-proof performance. Whether you are expanding operations, upgrading legacy systems, or integrating automation, the ILP series positions your business for growth.

Target Segments and Applications

Logistics & Warehousing



- Shipping & receiving labels
- Inventory and bin location labels
- Cross-docking and pallet tracking
- Return and compliance labeling

Healthcare & Pharmaceuticals



- Laboratory sample identification
- Pharmacy prescription labels
- Blood bank and unit-dose labeling
- Asset and equipment tracking

Manufacturing & Industrial Production



- Work-in-progress (WIP) labels
- Parts and component identification
- Finished goods labeling
- Packaging and compliance labeling

Textile & Apparel



- Product ID and size labels
- Price and tag labels
- Compliance and export labeling
- Packaging and logistics labels

Retail & Quick Commerce



- Price tags and shelf labels
- Omni-channel shipping labels
- Return and exchange labels
- Order fulfillment and dispatch labeling

E-commerce & 3PL (Third-Party Logistics)



- Order picking and packing labels
- Shipping and last-mile delivery labels
- Return management tags
- Fulfillment center bulk labeling

Electronics & Automotive Components



- Serial number and compliance labels
- Small-format high-resolution labels
- Warranty and safety labels
- Component traceability and barcoding

Specification

Category		Specification
Printing Method	Printing Method	Direct Thermal / Thermal Transfer
	Resolution Options	203 dpi / 300 dpi
	Max. Print Speed	10 ips (203 dpi)/8 ips (300 dpi)
	Max. Print Width	104 mm
	Max. Print Length	1000 mm (203 dpi), 750 mm (300 dpi)
Memory	Memory	RAM: 256 MB/Flash: 256 MB
Language Support	Emulation Support	ZPL, ZPL-II, TSPL, DPL, EPL2
Media	Media Types Supported	Continuous, Roll, Die-cut, Black Mark, Fan-fold, Notched
	Media Width	20 - 118 mm
	Media Thickness	0.08 - 0.25 mm
	Media Outer Diameter	Max. 8 inches
	Media Core (ID)	1.5" & 3"
	Ribbon Type	Wax, Resin, Wax-Resin
	Ribbon Width	30 - 110 mm
	Ribbon Length	450 meters
Interface	Standard Interfaces	USB-B, Ethernet, RS232 Serial, USB Host, Bluetooth
	Optional Interfaces	Wi-Fi, GPIO
Operation & Usability	Display	2.5" LCD screen with Real-Time Clock (RTC)
Barcode Symbolologies	Barcode Support -1D	Code 39, Code 93, Code 128, Codabar, EAN-8/13/128, UPC-A/E, MSI, GS1 DataBar
	Barcode Support -2D	PDF417, MaxiCode, DataMatrix, QR Code, Aztec
Fonts & Character Sets	Font Types	Bitmap: Sizes 6-32, OCR A/B, Rotatable (90°, 180°, 270°), Expandable 10xTTF: Monotype CG Triumvirate™, Rotatable
	Character Code Pages	DOS, Windows (125x), ISO8859, DBCS (Japanese, GBK, Korean, BIG5)
Electrical & Environmental	Power Supply	Input: AC 100-240 V, 50/60 Hz
	Operating Environment	Temp: 5°C to 40°C Humidity: 30% - 85% (non-condensing)
	Storage Environment	Temp: -20°C to 50°C Humidity: 10% - 90% (non-condensing)
Physical Characteristics	Dimensions (L x H x W)	406 mm x 287 mm x 258 mm
	Certifications	CCC, CE, FCC, CB, UL, RoHS
Certifications	Certifications	Autocutter, Peeler Unit, Peeler with Rewinder
Optional	Accessories	Autocutter, Peeler Unit, Peeler with Rewinder

Accessories

Autocutter, Peeler Unit, Peeler with Rewinder

SKU Number : 3006300007- ILP5210

SKU Number : 3006300008- ILP5308



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