

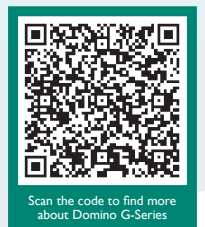


# Domino G-Series i-Tech thermal ink jet printers

The modular solution for high resolution printing



Print control flexibility with innovative fluids. The intelligent coding solution to improve your production efficiency.



Domino. Do more.

## Multi-purpose coding made easier

Experience and innovation are perfectly combined in Domino's G-Series **i-Tech** printing systems.

If you are looking for a coding solution that is flexible, easy to integrate into your production line and designed for high resolution printing at fast line speeds with complete reliability, G-Series thermal ink jet printers can meet your needs.

The modular set-up can grow along with your requirements, enabling you to operate multiple production lines or larger-sized message.

Intelligent **i-Tech** features and smart cartridge functions guarantee easy operation, improved production planning and reduced errors - saving you time and money.

As G-Series controllers do not require regular essential maintenance, your line efficiency is greatly improved.

## A diverse range of applications

High quality printing with excellent adhesion, light-fastness and scratch resistance on a wide range of materials: Super fast dry times enable perfect code clarity at high production line speeds. Combinations of alphanumeric texts, barcodes and 2D data matrix codes can be applied for enhanced traceability. For added consumer safety many inks are certified food packaging safe inks.



## Greener credentials

Domino's commitment and investment in sound environmental practices means we frequently exceed the demanding governmental, industry and company standards and regulations. We are committed to minimising the consumption of natural resources and energy and the creation of waste. Wherever practical our products are RoHS and WEEE compliant so that they are recyclable.

# Low running costs – low cost per print

## Efficient

No other TII printing solution offers the functionality of Domino's unique fluid formulations in a convenient changeable print cartridge. It's clean, efficient, reliable and service free.



## Predictable

Once the code is loaded into the controller - whether it is a logo, alphanumeric text, bar code or 2D data matrix code, the total number of prints possible per cartridge can be displayed on the user interface, allowing accurate prediction of ink running costs to be calculated.

## Innovative

The **AutoSwap** feature optimises OEE: uninterrupted production runs are enabled with alternate printing of two parallel cartridges. Cartridges can be exchanged when convenient during continued printing.

# High resolution, high speed printing

With the G-Series **i-Tech** range, you can print high definition (from 60dpi up to 600dpi) machine readable codes for enhanced traceability.

Ideally suited to industrial environments, G-Series **i-Tech** is able to print high quality codes in demanding applications at very high production line speeds.



# Inks developed to match your substrates

## Optimised

Domino has developed a portfolio of water and ethanol based inks, which provide broad suitability to match your diverse substrate printing requirements. High performance inks and print head drivers are optimised to deliver high quality, sharp images resulting in a large number of prints per cartridge.



## Versatile

Our experience in industrial inks has made our G-Series **i-Tech** printers the perfect choice for a wide variety of packaging materials including porous and non-porous substrates.

## High performance

The range of inks and resulting print performance make the G-Series **i-Tech** range well suited to fast flow wrapping food lines, or multi-substrate pharmaceutical and healthcare packaging lines.



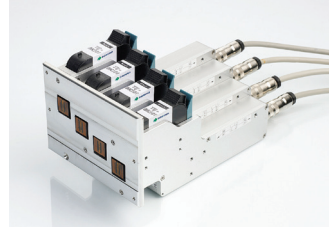
# Versatile configuration to meet more applications

## Scalable solutions

G-Series **i-Tech** is a modular system, which can be configured in a variety of ways to grow with your production demands. The controller has the power to manage up to four print heads in many different configurations - at the same time printing different messages with different inks - making integration easier and extremely cost effective.

Select from a single head configuration for simple applications, to a four headed set-up printing on four production lines with multiple messages for the most complex production applications.

Each print head can print multiple lines of text, bar codes, 2D data matrix codes, and logos - with multiple head configurations being able to handle large and complex graphics.



## Networking capability

G-Series controllers can be networked via Ethernet. Domino's G-View Browser application provides easy remote configuration and control. Automated data input, message selection and barcode verification increase production safety, quality and ease of use.

# Easy to use with virtually no maintenance

## Easy to install

G-Series **i-Tech** printers are extremely easy and quick to install, integrate and configure into any production environment.

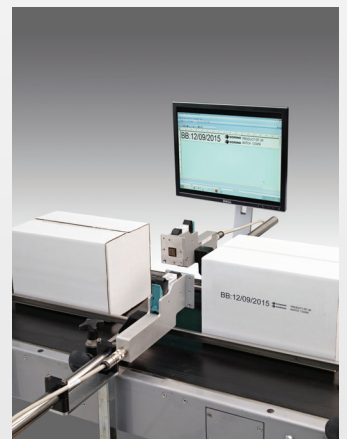
## Clean

Cartridge changes are simple, quick and clean. G-Series **i-Tech** is the ideal solution for confectionery, food, pharmaceutical and healthcare applications for both primary and secondary coding requirements.



## Simple to use

Message design and operation are intuitive and easy with our class leading **QuickDesign** software or directly on board. Messages can be edited during operation to minimise downtime.



**Domino. Do more.**

# A quick tour around G-Series i-Tech

## intelligent Technology

**i-Tech** components combine to create a system altogether more flexible and reliable.

**Automated Controller:** detects and updates the ink driver file, when a cartridge is changed, eliminating the need to manually configure the controller via the keyboard

**User Friendly:** LCD display with full QWERTY keyboard and on-board message design. The keyboard can be password protected for added security

**Controller:** can manage up to four print heads

**AutoSwap function:** continued printing during cartridge exchange for uninterrupted production

**Easy to integrate:** using compact controllers and print heads with a full range of flexible mounting options

**Ink Cartridge Level Detection:** for real time ink level management, ensuring improved performance, reduced downtime and lower cartridge ink wastage

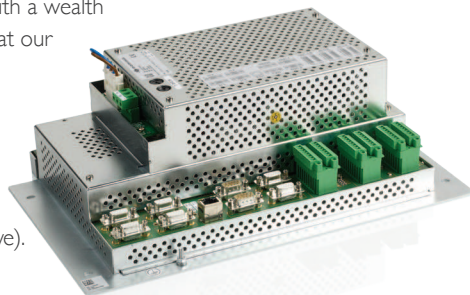
**Automatic Cartridge Present Sensing:** helps eliminate the possibility of incorrectly fitted cartridges and ensures your line will never run without a cartridge in place

## G320i OEM Board

The **G320i** OEM Board is specifically designed to be used by Original Equipment Manufacturers (OEMs) and Integrators. The **G320i** OEM Board can be integrated into OEM equipment & installations. The controller can be configured and programmed to work seamlessly within the target system and can be used within HMI control environments.

Each OEM board can operate 4 print heads in 4 different print group settings which provides OEM's with a wealth of configuration opportunities that our competitors cannot match.

With the **G320i** OEM Board you are ready for emerging legislation calls for item level serialisation or unique product identification (e.g. EU Falsified Medicines Directive).



**i-Tech Cartridge:** enables you to monitor the health of the cartridge and quickly diagnose any faults with interface alerts



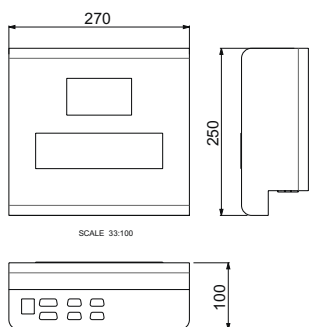
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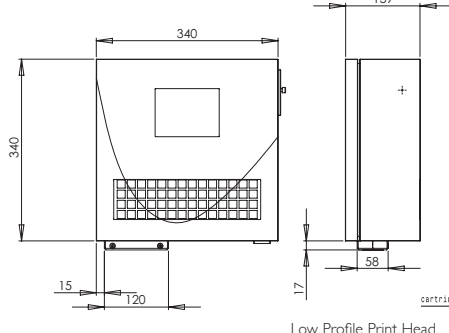
## Technical Specification:

Controllers <b>i-Tech</b>		Gx30i		Gx20i	
Configured as:	G130i	G230i	G220i	G320i / G320i OEM Board	
<b>Print Heads <b>i-Tech</b></b>					
Max. number of print heads	2	2	4	4	
Max. number of print groups	2	2	2	4	
Print speed	From 300m/min (984 ft/min at 60 dpi to 30m/min (98 ft/min) at 600 dpi (horizontal resolution)				
<b>Maximum print height</b>	25.4 mm / 1" (2 x 12.7mm)			50.8 mm (2") (4 x 12.7mm)	
<b>Graphics</b> (Monochrome Bitmaps)	Yes				
<b>External Memory</b>	USB			External Compact Flash	
<b>User Interface</b>	Graphical TFT WYSIWYG entry			Graphical LCD, WYSIWYG entry	
<b>Interfaces</b>	Protocols Modbus TCP	Ethernet Protocols: Modbus, Dynamark		Ethernet, RS232 Protocols: Modbus RTU and TCP, Dynamark	
<b>Control Languages</b>	English, German, French, Czech, Danish, Spanish, Italian, Portuguese, Swedish, Polish, Chinese, Korean, Russian, Hungarian, Dutch, Serbian, Latvian and Turkish.				
<b>Bar codes and 2D codes</b>	ID barcodes only: EAN 8, EAN 13, UPC-A, UPC-E, Code 39, EAN 128, Code 128, ITF14, Interleaved 2/5	EAN 8, EAN 13, UPC-A, UPC-E, Code39, EAN 128, Code 128, ITF14, Interleaved 2/5, Datamatrix GSI-128 Extended Barcode Library including many additional barcodes, e.g: QR-Code, GSI DataBar, PPN-Code, PDF417 and many others			
<b>Fonts</b>	Arial Unicode and Courier All sizes		Arial, Courier all sizes, other True Type fonts can be loaded		
<b>Dimensions – Controller</b>	Width: 270mm (10.63") Depth: 100mm (3.93") Length: 250mm (9.84") Weight: 3kg, 6.6lbs		Width: 340mm (13.38") Depth: 340mm (13.38") Length: 139mm (5.47") Weight: 10 kg, 22 lbs		Width: 356mm (14.01") Depth: 115mm (4.52") Length: 226mm (8.89") Weight: 2.5 kg, 5.5 lbs
<b>Standard Print Head</b>	Width: 28.6mm (3.74") Depth: 95 mm (1.13") Length: 222mm (8.74")				
<b>Low Profile Print Head</b>	Width: 56.9mm (2.24") Depth: 50mm (1.97") Length: 152 mm (5.98")				
<b>Print head cable length</b>	5, 10, 25m available				
<b>Inks</b>	Fast drying water and ethanol based inks in various colours (black, red, blue and green)				
<b>Input &amp; Output</b>	4 (NPN/ PNP / 24V) configurable 4 (24V) configurable		8 (NPN/ PNP / 24V) configurable 8 (24V) configurable		
	Configurable Inputs/Outputs: e.g. start print (D-top), print direction, ready to print, print busy, alarm, ink cartridge low, cartridge empty, cartridge present				
<b>Product Speed Detect</b>	1 (RS422 Shaft Encoder input)		2 (RS422 Shaft Encoder inputs)		
<b>G-Series <b>i-Tech</b> Features</b>	e.g. automatic ink detection, ink level sensing on cartridge chip, cartridge present, ink cartridge health check feature, <b>AutoSwap</b>				
<b>Serialisation</b>	not supported		Serialisation ready (e.g. FMD, SFDA, DQSA, ANVISA) Can be integrated as part of a 21 CFR Part 11 system		
<b>Range Specifications</b>	Powdered coated steel		Powdered coated steel		
Construction	100 - 240 VAC		100 - 240 VAC		
Operating Voltage	0.8 - 0.56A		1.2 - 0.4A		
Amperage	50 - 60Hz		50 - 60Hz		
Frequency	0 - 50°C		0 - 50°C		
Operating Temperature	20 - 80% Non Condensing 10 °C Increase per hour		20 - 80% Non Condensing 10 °C Increase per hour		
Operating Relative Humidity					
<b>IP Rating</b>	30		54		No IP rating

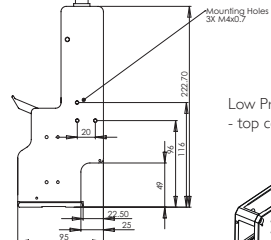
Controller G130/230i



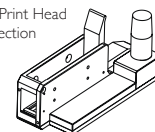
Controller G220/320i



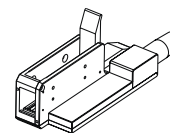
Standard Print Head



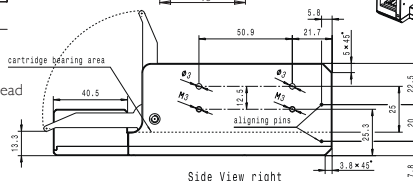
Low Profile Print Head - front connection



Low Profile Print Head - top connection



Low Profile Print Head



Side View right

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