

## SuperTracker



GTUS' SuperTracker is a state-of-the-art real time tracker, printer and system controller based on Graph-Tech's proven EditorGT control software with over 4,000 installations worldwide.

SuperTracker is truly innovative as all of the support for encoders, printer connections, Ethernet ports, serial ports, input and output connections and USB expansion are all integrated into a small enclosure that can be easily integrated with an infinite number of applications. A standard notebook or desktop PC communicates with the SuperTracker via standard gigabit Ethernet.

### SuperTracker Capabilities:

- A real-time compact controller designed for advanced imaging and personalization.
- Drives inkjet printers of virtually almost any manufacturer.
- Prints top sheets on-line, read & print, matching with readers such as cameras or barcode readers.
- Enables selective gathering, provides routing control and production planning.
- Works with standard Windows 10 IoT Enterprise computer without any proprietary hardware.
- Two models available that support either 8 or 16 inputs and 4 or 8 printers
- The world's most versatile controller with over 4,000 installations worldwide since 2000.
- Capable of running more than 40,000 products per hour.



- **Read & Print:** read a code with camera, barcode reader or magnetic stripe reader and retrieve a  
Drives various inkjet types:
- Graph-Tech eZ-Inkjet, GT-JET 36 (HP), GT-JET 72, GT-JET 64 , GT-JET SG Series, Raptor
- Domino Bitjet, K600, K100, K150, K200, Jetarray, A400, Solo, S-Series
- Videojet: BX Series, PrintPro, SR50, SR25, Excel
- Scitex 5000, 5100, 5120, 5240, etc.
- Imaje: Mailjet and S8

#### Controls:

- **Mailing:** Controller, Inkjet and addressing (town sorting), Intelligent Mail Barcodes
- Wrapping lines from Sitma, Buhrs, CMC, Chromos, etc.
- Newspaper lines from Ferag, Sitma, Mueller Martini, Buhrs, etc.
- Collators and Web machines: Bielomatik, GaVehren, Hunkeler, etc.
- Card machines from Entrust Datacard, Profold, PFS2, Nimax, Trimatt, etc.
- Camera systems from Axode, Lake Image, Cognex, Keyence, etc.
- Magnetic encoding and verification: Datacard, Profold, TotalMag
- Control UV and LED lamps: All major lamp companies
- Control Feeders from all major feeder companies - Batching capabilities
- Custom systems printing on laminate boards, license plates and many others

#### Applications:

- **Catalogue addressing:** Inside/outside printing, selective gathering, reordering and stacker control
- **Newspaper addressing:** Print top sheets online, selective inserting, routing and on-line production record from a database, and then print
- **Print & Verify:** printing of text or barcode combined with a reader (camera or barcode) to verify proper process.
- **Special numbering software** to generate automatic numbers and codes for sheet and roll numbering
- **Card printing and processing:** phone, loyalty, gift, medical, customer cards, etc.
- **Label printing and verification**
- **Direct mail addressing**





## SuperTracker Technical Details

### Technical Details

#### Characteristics:

- SuperTracker consists of a SuperTracker system cabinet with intuitive LCD feedback display along with a personal computer (Intel NUC or Rugged Notebook) with Windows 7 Embedded, RTX 2009 Real-Time Kernel, and updated Editor GT software.
- SuperTracker 8 includes support for 2 - encoders, 4 - RS232 serial devices, 2 -USB for expansion, 2 - Inputs/Outputs (8 i/o's), 1 - Gigabit Ethernet Communication, 2-24 volt inputs for internal power and external device power, 4 - Inkjet Printers, 1 - Console Port
- SuperTracker + includes support for 4 - encoders, 4 - RS232 serial devices, 2 -USB for expansion, 4 - Inputs/Outputs (8 i/o's), 1 - Gigabit Ethernet Communication, 2-24 volt inputs for internal power and external device power, 8 - Inkjet Printers, 1 - Console Port
- Drives up to 8 inkjets on up to 4 different tracking units
- On a synchronized production line with up to 4 tracking units, the inkjets can be placed anywhere on the line.
- Performs advanced record control for manual and automatic reorder.
- Performs advanced production planning for newspaper and other time critical applications
- Drives up to 3 industrial printers (drivers for Datamax, Printronix, Kyocera, Zebra, Mec-Tec, Markem CIM, etc. are available) for on-line top sheet, sack tag and pallet tag printing.
- Drives up to 7 readers - Camera - Axode, Videk, Leibinger, and Lake Image, etc. for character recognition; Barcode reader - Sick, Datalogic, Cognex; Magnetic Stripe Reader and Writing for Datacard, Profold, and GTUS' TotalMag; Read - Lookup and Print applications
- Handles virtually any data format.
- Data sources are Host/LAN, CD-ROM Drive, USB memory sticks
- Product imaging of up to 200 variable texts from data source, fix texts as many as wanted, 8 counters per inkjet. All texts are independently assignable to any combination of print lines and inkjet printers
- Production logging and statistic function reporting based on operator name, activity (production/setup/idle), and job number. Files exportable to MS-Excel
- User-friendly and intuitive software Windows-based software
- Security module for data encryption, decryption and access control
- Custom software development for modifications to suit special applications welcome, due to GTUS not being dependent on third parties, the complete software code was developed in-house.

#### Technical Data

- Dimensions: SuperTracker and SuperTracker + 292 x 165 x 90mm      Power supply: 120 x 60 x33mm
- Network: Gigabit Ethernet - TCP/IP
- Operating System: Windows 7 Embedded Standard 32 Bit; RTX 2009 32 Bit
- Interfaces: USB, Serial RS232 / RS422



## SuperTracker

### Follow your product down a production line

#### Why You Need SuperTracker?

On most regular transports, there are dedicated shaft encoders for the feeder, and the labeler plus individual photocells, then there is possibly another shaft encoder for the inkjet, another for magnetic encoder, possibly another for the transport logic and all of these are running on the same belt! **Your spending thousands of extra dollars** when all you really need is just one shaft encoder and photocell and you can greatly reduce the overall complexity of the system? **What you need is SuperTracker!!**

Instead, use a single SuperTracker with 1 shaft encoder per belt, divide the shaft encoder signal to inkjet, labelers, feeders, etc. Use also only 1 photocell per belt, the SuperTracker will trigger every element on that belt very precisely. Use a sync-point if the product has slippage on the same belt, and even if the product stays in a control window.

The GT controller can now be a laptop or small NUC computer that communicates with the SuperTracker. Moreover, it has integrated 4 serial interfaces (for readers, magnetic encoders) and 2 analog outputs (power/speed).

#### High Speed Link of 1 GB Ethernet Link

- Use a standard interface to be found in every PC: 1 GB
- Detect Input changes in nanoseconds and set outputs in real-time with the built-in tracker.
- Read inputs and set outputs over a 1 GB Ethernet link.

#### Easy to Setup

- Easily attach the SuperTracker to the machine or to a control panel.
- Setup the gearing of the shaft encoder once, e.g. in pulses per inch.
- Setup whether you want to react to the rising or falling edge of a sensor.
- Connects seamlessly to GT controller

#### Exact tracking

- Using both A/B quadrature signals, one can track a product in strokes or 1/1000"
- Built in backlash compensation
- Handles frequencies up to 1 MHz



## Windows 10 Controller



### Why upgrade to Windows 10?

Microsoft has announced the end of support for Windows 7 Embedded on October 13, 2020. Check it out for yourself at <https://support.microsoft.com/en-us/lifecycle>

Search for Windows Embedded Standard 7 SP1

GTUS has ported the GT software to Windows 10. It will look the same, it will have the same capabilities, including all of the custom programs and add-ons and it will operate exactly the same so you do not have to re-train your people or deliver data in a different format, and it even runs the same jobs!

Don't buy a controller without the basics like how to track a product over four belts, drive just 1 or 2 inkjets instead of the 47 inkjets, no reorder, no step-and-repeat, no bundler or stacker, no camera driver, no magnetic encoder, no RFID, no reporting functions, and many more functions developed over many years with more than 4,000 controllers installed worldwide. In short, you do not want a new controller that can do less, costs more, needs re-training, and is incompatible with data formats and even connectors for photocells/encoders.

One of the significant impacts of Windows 10 is that it does not support the ISA bus which is where the old proprietary trackers connected on our legacy Controllers. Hence, we made the SuperTracker which is the same as the tracker but the link using standard high-speed 1GB Ethernet found in every PC. You can select three types of SuperTrackers equivalent to the Basic 4 i/o, Standard (Mailtable 8 i/o), or Plus (Multiposition Tracker 16 i/o).



## Why Upgrade to Windows 10 Continued

A great advantage of using Graph-Tech's new Windows 10 system is that you can upgrade your controller with our new SuperTracker Basic, Standard or Plus and you won't need to change anything on the system as the SuperTracker uses the same connections for shaft encoders, photocells, i/o boxes, serial connections, printer connections and all of the communication is done with high-speed and reliable Ethernet.

### Windows 10 System Technical Data

- **5th Generation Intel® Core™ i5 Processors**
- **3MB Cache, up to 2.2 GHz up to 2.70 GHz Max Turbo**
- **2 Cores, 4 Threads**
- **4GB DDR4 DRAM**
- **256 GB SSD Hard Drive**
- **Video – HDMI, Display Port**
- **Four Gigabit Ports**
- **Four USB 3**
- **Windows 10 IoT Enterprise 2019 LTSB 64 Bit**
- **RTX 64 Bit**
- **EditorGT 64 Bit**

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