# **TRIO® 8-inch Controller**



Getac T800 / TRIO T8





- **✓** LIGHT
- **✓ PORTABLE**
- √ 3-year WARRANTY

# The TRIO® T8 is right size for a long day.

The TRIO 8-inch controller maintains a light and rugged ergonomic style with exceptionally long battery life to get through a long day in the harshest plant environments.

The 8" tablet is designed to fit comfortably in one hand! The **TRIO H8** is less than 2 lbs. and less than 1" thick, with a concave, non-slip case that makes it easy to grip. The brilliant 8.1" capacitive-touchscreen is incredibly rugged with minimal glare and has four advanced touch modes for rain, gloves, pen, and digitizer operation.

With **Window**® **10 Professional** installed, you are ready to connect the TRIO Controller to your network or operate as a stand-alone device, supporting your productivity applications and multiple language options.

TRIO is **PredictivePortal**<sup>™</sup>-enabled and ready to connect to the Symphony Industrial AI hosted, Eureka AI Platform for simplified database synchronization infrastructure and unparalleled program visibility.

# **FEATURES INCLUDE**

- √ 8.1" LCD Capacitive Touchscreen with digitizer stylus pen, rain-mode or glove-mode operation
- √ 12-hour standard battery, plus optional 8-hour SnapBack add-on battery packs
- ✓ Powerful Intel® Atom™ Processor, 4GB RAM and 128 GB solid-state drive (SSD)
- ✓ Bluetooth® integration with TRIO DP-2 / DP-2H acquisition hardware for safe in-field collection
- ✓ 3-year inclusive warranty on TRIO Controller
- ✓ Optional Class 1, Division 2 HAZLOC approval when paired TRIO DP-2H acquisition hardware
- ✓ Optional Total TRIO® database hosting, cloud application, web portal reporting, business-level metrics and analytical second opinions



# **TRIO® 8-inch Controller**

Getac T800 / TRIO T8

#### SYSTEM OVERVIEW

- · Triaxial vibration data collector
- Industrial Windows 10 Professional 64-bit (CBB) tablet PC controller
- Wireless, modular-designed data acquisition unit (DP-2/DP-2H)
- · Optional handheld laser tachometer
- Safe, flexible carrying options
- ALERT™ Data Collection Application
- Optional embedded Expert Automated Diagnostic System
- Survey File Transfer Exchange or optional ALERT replication or WATCHMAN Sync Utility for synchronization over multiple devices or ALERT systems
- Optional 4-plane machine in-place balancing and advanced analysis options

## **USER INTERFACE / DURABLE TABLET CONTROLLER**

# Physical / Environmental / Durability

- Size: 8.93" x 5.94" x 0.94" (227mm x 151mm x 24mm)
- Weight: 1.94 lbs (0.88 kg)
- Operating: -21C to +50C; Storage: -51C to +71C
- Humidity: 95% RH, non-condensing
- Rugged per MIL-STD-810G
- IP65, IEC 60529 rated; water, sand, and dust protection
- Class 1, Division 2, Group A, B, C, D, T6 per UL/ANSI/ISA 12.12.01

## **Processor/Operating System**

- Intel® Atom™ x7-Z8750 1.6 GHz Processor
- 4 GB LPDDR3 system memory, 128 GB Solid State Drive (SSD)
- Genuine Windows 10 Professional CBB (64-bit)
- TPM v2.0 data security; NIST BIOS compliant

## **Battery**

- Lithium-ion standard battery: 7.4V, 4200 mAh capacity
- SnapBack 2nd battery Life: 14.4V, 2100 mAh

## Communication

- Wireless-AC 7265, 802.11 ac
- Integrated Bluetooth v4.0

## Inputs / Outputs

- 8.1" Capacitive touchscreen, 1280x800 resolution
  - IPS TFT LCD HD, 600 NITs, LumiBond® 2.0 sunlight readable
  - Digitizer Pen, Rain Mode, Glove Mode
- USB 3.0 port
- Micro-HDMI
- DC power input port
- Speaker, audio / microphone combo-jack
- 6 button keypad (power, volume up, volume down, home, P1, P2)
- Rear-facing 8.0 MP built-in camera with autofocus
- On-screen QWERTY soft keyboard

## **Carry Options**

- Belt-worn holster and palm strap
- Optional 4-point harness
- Optional shoulder strap

## TRIO DATA ACQUISITION / PROCESSOR (DP-2/DP-2H)

## **Data Acquisition Inputs**

4 simultaneous sampled, fully phase matched, ICP programmable

Other Coupling: AC (for proximity probe connection)

AC Input Voltage Range: ±10V AC Bandwidth: 0.5Hz to 40kHz

DC Bias/Gap Measurement: ±25V range for ICP bias voltage check and

proximity probe gap measurement

Measurements: Acceleration, velocity (by hw integration), bearing demodulation (accelerometers), and displacement (proximity probes)

Gain Ranges: Gain steps 1, 2, 5, 10, 20 and 50

Digital trigger input: External trigger, tachometer speed, ordered data

(by phase-lock-loop)

## **Processing**

### **AC Measurements**

ADC: 24-bit sigma-delta, simultaneous on four AC channel inputs, better than 104 dB dynamic range

Sampling Rates: 64Hz to 102.4kHz

Bandwidth Ranges: 0.5–25Hz, 0.5–40 kHz, protected by anti-alias filters

Data Block Lengths: 64 to 400,000 samples

Spectral lines: Up to 25,600

Noise Floor: Less than 0.2  $\mu$ -volts per root Hz from 0.5-1000 kHz

### **DC** Measurements

ADC: 16-bit multiplexed for bias voltage, process, and probe gap measurements, 0-10 kHz Bandwidth

# **Analysis Capabilities**

Dynamic Analysis: Overall, Spectra, Waveform, Phase and Speed Cross-Channel: Cross-power, Transfer Function, Coherence, Phase and

Demodulation Function: Digital amplitude demodulator and Impact

Demodulation for low speed detection

Averaging: RMS, Exponential, Peak Hold, Order Tracking, Synchronous

Time and Negative Averaging Number of averages: 1-1000

FFT Window Function: Hanning, Hamming, Rectangular, Flattop

# Communications with Host Tablet PC/Controller

Wireless - Bluetooth v2.0 with EDR (1.5Mbps max)

Wired: USB user port (includes data stream and remote power to DP)

## Power

Charging rate: 0.5A from USB PC input (4 hrs.), 1.0A from USB wall adapter

Battery Life: 8 hours between charges (continuous collection)

## Physical / Environmental / Durability

Dimensions: 6.18" x 3.62" x 1.81" (157mm x 92mm x 46mm)

Weight: 1.0 lb. (450 grams)

Carrying options - Belt worn holster or shoulder worn soft pack

Operating Temperature: -10C to +60C IP-65 rated; water, sand, and dust protection

4' drop per MIL-STD-810G

 $0 \sim 90\%$  humidity per MIL-STD-810G

Compliance: CE, ETL Listed, Optional: Class 1, Division 2, Group A, B, C, D, T6



# **TRIO® 10-inch Controller**



Getac UX10 / TRIO T10



- ✓ RUGGED
- **✓ POWERFUL**
- √ 3-year WARRANTY

# TRIO® T10 gives versatility to the field analyst.

The TRIO 10-inch controller provides field analysts with a powerful user-interface that is easy to navigate, simple to use, and robust in harsh industrial environments.

1000 nits of brightness make the 10.1" FHD capacitive-touchscreen readable even in bright sunlight, while its digitizer-stylus, rain, and glove touch capability makes visibility and productivity possible in extreme conditions.

With **Window® 10 Professional** installed, you are ready to connect the TRIO Controller to your network or operate as a stand-alone device, supporting your productivity applications and multiple language options.

TRIO is **PredictivePortal™**-enabled and ready to connect to the Symphony Industrial AI hosted, Eureka AI Platform for simplified database synchronization infrastructure and unparalleled program visibility.

# **FEATURES INCLUDE**

- √ 10.1" FHD Capacitive Touchscreen with digitizer stylus pen, rain-mode or glove-mode operation
- √ 8+ hour standard battery, high-capacity optional
- ✓ Powerful Intel® Core™ i5 Processor, 8GB RAM and 256 GB solid-state drive (SSD)
- ✓ Bluetooth® integration with TRIO DP-2 / DP-2H acquisition hardware for safe in-field collection
- √ 3-year inclusive warranty on TRIO Controller
- ✓ Optional Class 1, Division 2 HAZLOC approval when paired TRIO DP-2H acquisition hardware
- ✓ Optional Total TRIO® database hosting, cloud application, web portal reporting, business-level metrics and analytical second opinions



# **TRIO® 10-inch Controller**

# Getac UX10 / TRIO T10

### SYSTEM OVERVIEW

- · Triaxial vibration data collector
- Industrial Windows 10 Professional 64-bit (CBB) tablet PC controller
- Wireless, modular-designed data acquisition unit (DP-2/DP-2H)
- · Optional handheld laser tachometer
- Safe, flexible carrying options
- ALERT™ Data Collection Application
- Optional embedded Expert Automated Diagnostic System
- Survey File Transfer Exchange or optional ALERT replication or WATCHMAN Sync Utility for synchronization over multiple devices or ALERT systems
- Optional 4-plane machine in-place balancing and advanced analysis options

## **USER INTERFACE / DURABLE TABLET CONTROLLER**

## Physical / Environmental / Durability

- Size: 10.82" x 7.51" x 0.88" (275mm x 191mm x 22.4mm)
- Weight: 2.68 lbs (1.22 kg)
- Operating: -29C to +63C; Storage: -51C to +71C
- · Humidity: 95% RH, non-condensing
- Rugged per MIL-STD-810G
- IP65, IEC 60529 rated; water, sand, and dust protection
- Class 1, Division 2, Group A, B, C, D, T6 per UL/ANSI/ISA 12.12.01

## **Processor/Operating System**

- Intel® Core i5-8265U 1.6 GHz Processor
- 8 GB DDR4 system memory, 256 GB Solid State Drive (SSD)
- Genuine Windows 10 Professional CBB (64-bit)
- TPM v2.0 data security; NIST BIOS compliant

## **Battery**

- Lithium-ion battery: 11.1V, 4200 mAh capacity
- Optional high capacity battery: 10.8V, 9420 mAh

## Communication

- Intel dual-band wireless-AC 9260 (802.11ac)
- Integrated Bluetooth v5.0
- 10/100/1000 base-T ethernet

## Inputs / Outputs

- 10.1" Capacitive touchscreen, 1920x1200 resolution
  - IPS TFT FHD LCD, 1000 NITs, LumiBond® 2.0 sunlight readable
  - Digitizer Pen, Rain Mode, Glove Mode
- USB 3.1 port
- HDM
- DC power input port
- Speaker, audio / microphone combo-jack
- 6 button keypad (power, volume up, volume down, home, P1, P2)
- Rear-facing 8.0 MP built-in camera with autofocus
- Front-facing FHD webcam
- On-screen QWERTY soft keyboard

## **Carry Options**

- Shoulder strap and palm-strap with kickstand
- Optional 4-point harness

## TRIO DATA ACQUISITION / PROCESSOR (DP-2/DP-2H)

## **Data Acquisition Inputs**

4 simultaneous sampled, fully phase matched, ICP programmable

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4' drop per MIL-STD-810G

0 ~ 90% humidity per MIL-STD-810G

Compliance: CE, ETL Listed, Optional: Class 1, Division 2, Group A, B, C, D, T6

