## Key Features

- ✓ Independent of OS & CPU type. DT10 works on any target device

- ✓ Supports 6 different connection types for Embedded Devices

- ✓ Long Time Tracing captures up to 32 days! of continuous test data

- ✓ Facilities off-line debugging with Step-Through Play-Back features

- ✓ Tracks task transition, execution times, variable changes, & more

- ✓ Automatic Design Verification of execution times & data values

- ✓ Captures & Reports C0 and C1 Code Coverage at runtime

- ✓ DT10 Analysis auto generates detailed Profiling & Trace Reports

- ✓ Analog Box to capture Analog and Digital hardware signals

- ✓ Oscilloscope View synchronizing software & hardware output

- ✓ Test Reports for improving Embedded Software Quality

# Heartland Data / DT10

## The Latest in Dynamic Testing for Embedded Software Development

*Supports C, C++, Java & C#*

### DT10 Overview

DT10 is the Next Generation Dynamic Testing tool purpose-built for Embedded Software Engineering. It unifies the capabilities of a variety of traditional embedded testing tools into a single powerful solution that works on any embedded software target, independent of the particular embedded OS or CPU.
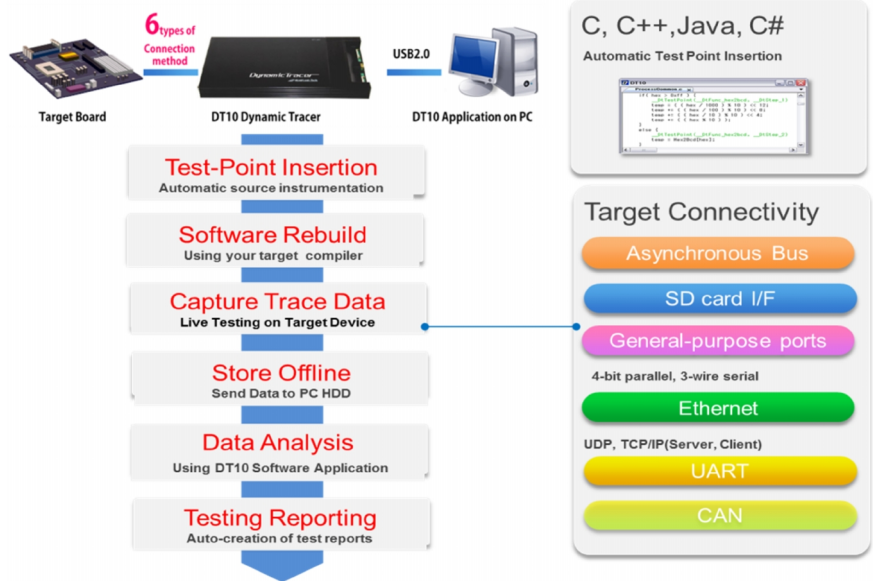


### DT10 Capabilities

DT10 provides a suite of powerful features to capture characteristics of the runtime embedded software. Automatic source instrumentation places "Test Points" into key locations throughout the code, facilitating the transfer of vital trace & debug data back to the host PC. Once the data has been captured the DT10 Software analysis engine will generate a collection of reports helping to pin-point Performance and Functional Defects in the software, along with sets of Graphs and Charts giving a visual representation of the embedded software in action. These reports include Function Execution Time, Code Coverage, Performance Monitor, Event Trace, Variable Monitor, just to name a few. The DT10 Multi-wave Scope even allows Analog and Logic Signals to be captured and analyzed from the target, and correlating with states and transitions in the embedded software.
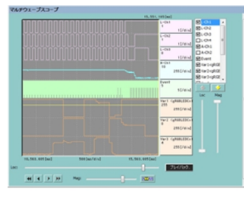
# Trinity *Technologies*
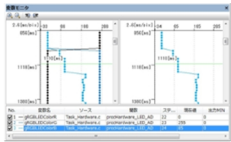
### Variable Monitor
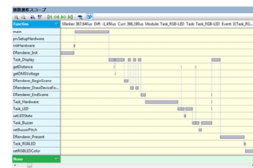Trace the changes in variable value over time
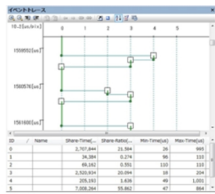
### Event Trace
Monitor Task, Status, and Sequence Transition

### Multi-wave Scope
Verify Software Trace & Hardware Status together

### Function Transition
Graphical display of timed transitions between functions

### Code Coverage
Reports C0,C1 Code Coverage of the tested software

## Specifications

### Connect Box

24.7mm  60mm

112mm

- Width : 60mm
- Height : 112mm
- Depth : 24.7mm
- Weight : 160g

### Dynamic Tracer

200mm  24.7mm

112mm

- Width : 200mm
- Height : 112mm
- Depth : 24.7mm
- Weight : 500g

## Hardware Accessories

Main unit
**Dynamic Tracer**

for PC Connection
**USB Cable**

for Dynamic Tracer
**AC Adapter**

Relay unit between Dynamic Tracer and target equipment

**Connect Box A**
for connecting
asynchronous bus / GPIO

**Connect Box B**
for connecting
Ethernet / UART

**Connect Box C**
for connecting
asynchronous bus / GPIO / SD

Analog signal measuring unit
**Analog Box**
*With dedicated probe attached

for Connecting GPIO
**Probe 8PIN**
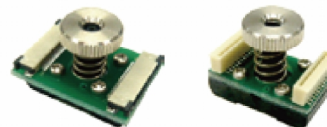
for Asynchronous bus
**FPC Cable**
*Two cables as a set
*Shown is the cable dedicated to
  Connect Box A.
  Cable for Connect Box C is also available.

for Asynchronous bus
**Attachment 48H / 56H**
**Attachment 48V / 56V**
*Two types, TSOP48 and TSOP56, are available for each.
*Shown is the attachment dedicated to Connect Box A.
  Attachment for Connect Box C is also available.

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