DT Research Rugged Tablet Awarded C1D2 Certification for Safe Operation in Potentially Hazardous Environments

DT362 Purpose-builtTablet Proven Safe to Use in Areaswhere
Flammable Gases, Vapors and LiquidsCould Exist

San Jose, CA& West 2022 San Diego - February 16, 2022 – [DT Research](#), the leading designer and manufacturer of purpose-built computing solutions for vertical markets, today announced that its DT362 Rugged Handheld Tablet has been tested and [Class 1 Division 2 Certified](#) to operate safely in hazardous areas where flammable gases, vapors or liquids may be present within sufficient quantities to be explosive or ignitable. The C1D2 certification is recognized as the most widely accepted non-incendivestandard in North America for products used in hazardous environments.

As mobile electronic devices become ubiquitous in workplaces across industries, C1D2 certification has become increasingly important to ensure the safety of all workers. Many work environments have both hazardous and non-hazardous areas. In these situations, despite policy and warning signs, there is a high potential that workers may accidentally carry a non-compliant mobile electronic device into a hazardous environment.

With the C1D2 certification, companies in many industries can be confident that the DT362 Rugged Tablet can be used safely in environments where ignitable concentrations of flammable gases, vapors or liquids might exist, such as aircraft hangers, military environments, chemical and gas handling areas, petroleum and gas processing plants, food processing, paint manufacturing and spraying facilities, dry cleaning facilities and textile mills.

"As a company specializing in reliable purpose-built solutions for many vertical markets, we strive to adhere to the tough high standards required in a broad set of industries," said Daw Tsai Sc.D., president of DT Research. "We are proud to add the C1D2 certification to the robust features of the DT362 rugged tablet, making it a viable solution in many more environments."

As part of the certification, tests and evaluationswere performed on the DT362 tabletwhere hazardous material not normally present in an explosive concentration may accidentally exist through rupture, breakage or unusual faulty operation.

CID2 certification ensures the DT362 Rugged Tablets have the following safety features:

- **Non-incendive Circuit:** Circuitsthat are not capable of igniting flammable gas–air or vapor–air through an arc or thermal effect produced under the intended operating conditions of the equipment.

- **Non-incendive Component:** The contacting mechanism for the component is constructed so that the component is incapable of igniting the specified flammable gas–air or vapor–air mixture.

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- **Non-incendive Equipment:** The electrical/electronic circuitry is incapable, under normal operating conditions, of causing ignition of a specified flammable gas–air, vapor–air mixture due to arcing or thermal means.

- **Non-sparking Apparatus:** Apparatus that has no normally arcing parts or thermal effects capable of ignition.

The DT362 Rugged Tablets will be showcased at the AFCEA West conference the San Diego exhibit hall booth 1537, February 16-18, 2022.

DT362 Rugged Tablet
The DT362 is a fanless tablet that weighs only 1.1 pounds with all options fully-integrated. The 6-inch display has 720 x 1440 resolution and supports a capacitive touch stylus and a digital pen, with Intel® Pentium® Silver Quad-Core CPU with 8GB RAM running Microsoft® Windows® 10 IoT Enterprise OS.

The DT362 takes full advantage of advanced Windows 10 IoT Enterprise OS security including Device Guard enterprise hardware and software security features that only allow the tablet to run trusted applications with TPM 2.0 support. The DT362 includes Lock Down features to protect against malicious users, which also provide a custom designed user experience and increase system reliability.

DT Research combines the Windows 10 IoT Enterprise software security with its proprietary hardware security, such as media sanitization option that supports both NSA and USA-AF/Navy/Army standards. Hardware security options also include camera privacy mode, instant blackout, as well as automatic Bluetooth, RFID and WiFi disable functions that can be pre-configured to turn off all radio capabilities under certain conditions.

Military Standard
The DT362 is fully ruggedized to meet the durability and security standards below:
- IP65 Rated – Water & Dust Resistant
- MIL-STD-810G Certified – Vibration and Shock Resistant; Altitude Tested Storage & Operation
- Operational in Extreme Temperatures (14 F to 122 F)
- NIST (National Institute of Standards & Technology) Compliant
- Built-in Smart Card / CAC-card Full-slot Reader (enables multiple security level control)
- Advanced data security with media sanitization (5220.22-M, USA-AF AFSSI 5020, USA Navy NAVSO P-5239-26, NSA Manual 130-2, USA-Army 380-19, NISPOMSUP Chap 8, Sect. 8-501 and NSA Manual 9-12 Standards)
- Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing
- 4 Foot Drop Protection

Customizable Options
DT Research offers customizable options for the DT362 including an optimized OS, programmable buttons, and BIOS. Customers can choose to have the options below fully-integrated:
- 2D Barcode Scanner
- Camera - 8 Megapixel back camera with LED flash
- UHF RFID reader 865MHz – 928MHz, EPCglobal Class 1 Gen 2/ ISO 18000-6C; reach 16 feet (4.87m) read distance with integrated ThingMagic micro module and embedded antenna; reach 30 feet (9.1m) with the trigger grip antenna
- NFC/RFID 13.56MHz reader (ISO 15693 and 14443 A/B compliant)
- Wi-Fi & Bluetooth

- U-Blox M8 GNSS with concurrent reception of GPS and GLONASS; industry-leading -167dBm navigation sensitivity

About DT Research

DT Research™,an early Mobile Tablet pioneer and leading designer and manufacturer of purpose-built computing systems for vertical markets, delivers the world's most comprehensive line of Rugged and Industrial-grade Tablets, Mobile POS Tablets, Convertible Rugged Laptops, Medical Rugged Tablets, Digital Signage Systems and Medical Computing Solutions. DT Research products are uniquely designed with customizable built-in options assembled in California, providing customers with rapid time-to-market solutions. The DT Research family of products is based on embedded computing platforms that power secure, reliable and cost-effective computing. DT Research systems offer computing mobility within industrial and harsh environments through durable solutions with wireless connectivity, high-quality touch displays, and Windows® and Android operating systems. More than 200 organizations across the globe rely on DT Research solutions in industries such as government, healthcare, hospitality, logistics, military, retail and warehousing. DT Research is headquartered in Silicon Valley, California with offices in China and Taiwan. For more information, visit www.dtresearch.com and follow @dtresearch, #MedicalTablets and #RuggedTablets.

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Media Contacts:

Barbara Reichert
Reichert Communications, LLC
barbara@reichertcom.com
o) 650-548-1002 m) 415-225-2991

Gabrielle Marshall
DT Research
gmarshall@dtri.com
o) 408-934-6192