

NATIONAL TRANSPORTATION SAFETY BOARD
Vehicle Recorder Division
Washington, D.C. 20594

December 1, 2021

Personal Electronic Device

Specialist's Factual Report **By W. Deven Chen**

1. EVENT SUMMARY

Location: Urbana, Ohio
Date: August 20, 2021
Aircraft: Socata TBM 700
Registration: N700DT
Operator: Private
NTSB Number: CEN21FA376

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

On September 16, 2021, the National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following personal electronic device (PED):

Device Manufacturer/Model: **Apple iPhone 6s Plus**
IMEI Number: **353284070642882**

3.1. Device Description

PEDs are a category of devices comprised primarily of portable computing devices and mobile phones. Portable computing devices are typically capable of internet access, email, messaging services, and can run user-installed applications to perform specific tasks. Depending on the model, mobile phones can perform many of the same tasks as portable computing devices, plus have voice call and text messaging capabilities. PED user and system data is typically stored on non-volatile memory¹ and can be accessed through manufacturer-provided interfaces.

3.2. Data Recovery

Upon arrival at the Vehicle Recorder Division, an exterior examination revealed that the device had sustained severe impact damage, as shown in Figure 1. The motherboard was removed from the device, and the substrate was found to be bent. The motherboard was placed into a surrogate device; however, it did not power up. The extent of the damage

¹ Non-volatile memory is semiconductor memory that does not require external power for data retention.

precluded normal and advanced recovery procedures and additional attempts were unsuccessful in yielding usable data. No data were recovered from the device.



Figure 1: Apple iPhone 6s Plus as received.