

ABSTRACT

In this modern era, almost everyone need charger to recharge their smartphone power. There were many ways to charge smartphone power one of them was using portable charger or power bank. On the other hand, power bank usage lead to security fault because in the power bank can be inserted a microcontroller used as data stealer just like phony portable charger. Phony portable charger is a power bank designed as a data receiver from the smartphone that was infected by a specific malware.

Generally, Phony Portable Charger is hardware consisted from power bank, Teensy, SD Card and FTDI Chip. FTDI Chip used to convert USB signal into UART signal so the data can be received by Teensy. Teensy used as a data processing and receiver from the smartphone. SD Card as data storage that was received and processed by Teensy. The saved data were CSV extension to help easily interpret data. The target smartphone is a smartphone that were infected by the malware. Data captured from the smartphone consist of SMS, e-mail, contact, webview and smartphone's information.

Product of this research is a Phony Portable Charger that able to capture and save data sent by the malware in the smartphone. In the acquisition and SMS data saving need average time of 35.23 millisecond per data, contact data need average time 18.3 millisecond per data, webview data need average time of 19.2 millisecond per data and email data need average time of 53.4 millisecond per data.

Keywords: Power bank, Phony Portable Charger, Teensy, Security System