

# **Technical Note**

(tcpgps\_android\_en\_v21\_001\_performance\_tests)

# **Performance Tests**

## Update Date

28/10/2021

## **Requirements**

#### Hardware:

Android Device

#### Software:

Android OS 6.0+ TcpGPS for Android 2.1+

## **Objetive**

This document is purely orientative and pretends to guide the user so it may choose a mobile device compatible with TcpGPS, with details about performance depending on number of points or the size of the drawing employed.

# <u>Details</u>

The table in next page shows the following data:

- **Model and Brand** of multiple devices with different performance per device.
- Device Performance Rank based on the Android 2D Graphics Mark Rating <u>https://www.androidbenchmark.net/g2dmark\_chart.html</u> at the update date of this document.
- **Project Load Time** when entering the Surveying option, in seconds. We consider **Small** a drawing weighting 1 Mb and a **Large** one with 10 Mb, containing only polylines in both cases.
- **Rendering Time** for point clouds, considering **Small** a file of 1.600 points and a **Large** one a file with 10.200 points.

		Load Time		Rendering Time	
Brand and Device Model	Performance Rating	Small	Large	Small	Large
Samsung Galaxy Tab S7 FE G5 (SM-T736B)	34,6	07"	39"	<1"	2"
Samsung Galaxy Tab S2 8.0 (SM-T719)	12,0	18"	1'57''	1"	4"
Samsung Galaxy Tab Active 2 (SM-T395)	9,6	19"	2'13"	1"	8"

To rate the results in the table we have used the following color-coded rating:

Rating	Load Time	Rendering	
Excellent	<15"	<1"	
Standard	<40"	<3"	
Minimum	<1'	<5"	
Below Minimum	>1'	>5"	

To sum up, if the intent is to use files similar as the ones considered small by our team, all three models would be acceptable, but if there's a need to use larger files, only the Samsung Galaxy Tab S7 FE G5 would have an acceptable performance.