

Keysight X8712A IoT Device Battery Life Optimization Solution

Solution Overview

The Keysight X8712A IoT device battery life optimization solution begins with the proven seamless ranging measurement technology of the N6705C DC power analyzer with up to four N6781A source/measure units (SMUs). On top of this robust hardware solution is an RF power detector and the Keysight Event-Based Power Analysis software, an application that runs on the Keysight Test Automation Platform (TAP).

You can use up to four N6781A SMUs to power and measure your device under test (DUT), and you can plug a Keysight X8712A RF event detector into one of those SMUs to give you fast insight to charge consumption associated with radio frequency (RF) events.

Estimating battery runtime is not enough.

To get the most out of your IoT device's battery, you need to understand what RF and sub-circuit events are causing battery charge consumption to make the hardware and firmware programming decisions that will optimize your battery's runtime.



Ordering Information

Use the information below to order a complete X8712A IoT device battery life optimization solution. If you already have an N6705C DC power analyzer with the desired number of SMUs, you can order the RF event detector, the software, or both. Order model number X8712AS with one of the six licensing options shown below to order the software separately from the N6705C.

Model Number	Description	Quantity
Hardware		
X8712A-RFD	X8712AD RF Event Detector	0 or 1
X8712A-DPA	N6705C DC Power Analyzer, Modular, 600 W, 4 Slots	0 or 1
X8712A-SMU	N6781A 2-Quadrant Source/Measure Unit for Battery Drain Analysis, 20 V, ± 1 A or 6 V, ± 3 A, 20 W	2 to 4
Event Based Power Consumption Monitoring Suite (choose one from list below)		
KS833A1A-1FP	Software Node-locked (single PC), perpetual	
KS833A1A-1TP	Software Transportable, perpetual	
KS833A1A-1NP	Software Floating (multiple PCs)	
KS833A1A-1FL	Software Node-locked (single PC), 12 months	
KS833A1A-1TL	Software Transportable, 12 months	
KS833A1A-1NL	Software Floating (multiple PCs), 12 months	

For more information on the X8712A, please visit: www.keysight.com/find/X8712A.

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

