

## SHA850A Firmware Revision History

Version	Revision
SW: 1.8R10 Uboot-OS: 4.9.0 2025/12/17	<b>Solved Issues:</b> <ul style="list-style-type: none"> <li>Update the charging solution to resolve charging issues in certain scenarios.</li> <li>Optimize the coupling logic between the number of points and RBW/Step/Span in EMI mode.</li> <li>Fixe demodulation failures in certain scenarios under DMA mode.</li> </ul>
SW: 1.8R5 Uboot-OS: 3.9.0 2024/12/27	<b>Improvements:</b> <ul style="list-style-type: none"> <li>VNA UI optimization.</li> </ul> <b>Solved Issues:</b> <ul style="list-style-type: none"> <li>Failure of the upgrade process when quickly running it after power-on.</li> </ul>
SW: 1.8R4 Uboot-OS: 3.9.0 2024/12/19	<b>Improvements:</b> <ul style="list-style-type: none"> <li>EMI measurement UI optimization.</li> </ul> <b>Solved Issues:</b> <ul style="list-style-type: none"> <li>Trigger configuration not resetting when switching modes.</li> <li>S21 overload warning in VNA mode.</li> <li>SCPI freeze caused by *OPC? query.</li> <li>Inability to exit remote control mode.</li> </ul>
SW: 1.8R3 Uboot-OS: 3.9.0 2024/12/10	<b>Improvements:</b> <ul style="list-style-type: none"> <li>Optimize FTP functionality.</li> <li>Optimize the UI Refresh module.</li> <li>Enhance the EMI measurement UI, adding a status bar display.</li> <li>Improve the algorithm for TDR step response.</li> </ul> <b>Solved Issues:</b> <ul style="list-style-type: none"> <li>Fix issues that may cause system crashes.</li> <li>Address the failure of trigger hold-off in MA mode.</li> <li>Resolve the 6 dB carrier power discrepancy in MA mode.</li> </ul>
Software: 1.8R1 Uboot-OS: 3.9.0 2024/10/28	<b>New Functionality:</b> <ul style="list-style-type: none"> <li>Added EMI mode.</li> <li>Added SCPI commands to query files in a specified directory.</li> </ul> <b>Improvements:</b> <ul style="list-style-type: none"> <li>Optimized the system information interface.</li> <li>Supports saving measurement results in txt format under AMA and DMA Mode.</li> <li>Optimized the calculation accuracy of Band Marker.</li> </ul> <b>Solved Issues:</b> <ul style="list-style-type: none"> <li>Fix DHCP failure after IP conflict.</li> <li>Fix IQ collection.</li> </ul> <p>Fix map compression package reading error , and the playback points displaying error.</p>

Version	Revision
Software: 1.7R2 Uboot-OS: 2.7.1 2024/1/12	<b>New Functionality:</b> <ul style="list-style-type: none"> <li>• Add GNSS timing.</li> <li>• Add the outdoor map downloader software EasyMAP.</li> <li>• Add automatic screenshot and data store for LIMIT.</li> </ul> <b>Improvements:</b> <ul style="list-style-type: none"> <li>• UI Response improvement</li> </ul> <b>Solved Issues:</b> <ul style="list-style-type: none"> <li>• Fixed small RBW display.</li> <li>• Fixed the abnormality of warm drifting calibration (compatible with old machines: calculating two problems with errors).</li> <li>• When the DTF is solved to the feet format, the cursor returning unit is the problem of YARDS.</li> </ul>
V1.1.2.1.6R5 2023/9/28	<b>New Features:</b> <ul style="list-style-type: none"> <li>• Kml recording function.</li> <li>• Supports importing maps.</li> <li>• Supports map feature under Channel Power measurement record playback in SA mode.</li> </ul> <b>SCPI Commands:</b> <ul style="list-style-type: none"> <li>• Added [ [:SENSe]:WAVEform:POINts? ] command to obtain the number of IQ sampling points.</li> <li>• Added [ :FETCh:WAVEform? ] command to obtain IQ collected waveform data.</li> </ul> <b>Optimized Function:</b> <ul style="list-style-type: none"> <li>• Optimized the Channel Power measurement refresh response efficiency in SA mode.</li> <li>• Optimized VNC refresh efficiency.</li> </ul> <b>Solved Problem:</b> <ul style="list-style-type: none"> <li>• Fixed unstable frequency counter in SA mode.</li> <li>• Fixed audio demodulation buzzing sound in SA mode.</li> <li>• Fixed when trace is view in SA mode, a large error will be obtained when executing alignment.</li> <li>• Fixed incorrect sequence number when harmonics obtain fundamental wave amplitude in SA mode.</li> </ul>
V1.1.2.1.6R3 2023/9/7	<b>New Functionality:</b>

Version	Revision
	<ul style="list-style-type: none"> <li>• Add AMA and DMA Mode</li> </ul> <p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>• UI Response improvement</li> </ul> <p><b>Solved Issues:</b></p> <ul style="list-style-type: none"> <li>• SA rbw10Hz and RBW 1Hz noise floor difference is 20db processing</li> </ul>
V1.1.2.1.5R0 2023/4/15	<p><b>New Functionality:</b></p> <ul style="list-style-type: none"> <li>• Add AMA and DMA Mode</li> <li>• IQ Acquisition in SA Mode</li> <li>• Trace Record/Playback in SA mode</li> </ul> <p><b>Improvements:</b></p> <ul style="list-style-type: none"> <li>• UI Response improvement.</li> </ul> <p><b>Solved Issues:</b></p> <ul style="list-style-type: none"> <li>• Fixed align error</li> <li>• Fixed data error Harmonic Measurement</li> <li>• Fixed hung up after zero span calibration and enhancement response calibration in VNA mode.</li> <li>• Fixed cont peak and gate sync error, and direction button error in CAT mode</li> <li>• Fixed auto scale error in CAT and VNA mode.</li> </ul>
V1.1.2.1.2 2022/11/1	The first time introduced.