

SSA3000X Plus Firmware Revision History

Version	Revision
V6.3R2	Notice:
2025/3/18	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	New Functionality:
	Add measurement related functions, including: APSK function, Marker Band function, MA
	Record function and 200 Hz EMI RBW(only SSA3075XPlus).
	Add system related functions, including: local oscillator feedthrough self calibration, 10M out
	frequency accuracy Self-Calibration function and FTP function.
	Improvements: • Fixed some known defects.
V3.2.2.6.2R5	Notice:
2024/2/22	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
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	New Functionality:
	Improvements:
	Display the exit command in Remote Control mode interface.
	SA/EMI/MA mode saves the current trace when saving user configuration
	SA mode auto tune does not change the amplitude Unit and Scale Type (Log/Linear)
	EMI mode exports Freq Interpoaltion (Log/Linear) when saving Imt file, and import the
	configuration when recalling the lmt file.
	Solved Issues:
	Resolve the error issue of the SA mode TG waveform at 1.158GHz-1.168GHz.
	Fix the problem of MA mode setting the SCPI command for filter type:
	DDEMod:FILTer:MEASurement setting root raised cosine and raised cosine failed.
	Fix the problem that when the EMI mode does not have touch screen function, it is impossible
	to pull down to see more measurement results
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V3.2.2.6.2	Notice:
2023/12/14	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	New Functionality:
	Add Picture Viewer
	Add Open Source Acknowledge
	Add Remote Control Mode, when entering, the interface displays system time, limit status,
	system messages, etc., shielding UI refresh. SCPI: DISPlay:WINDow:ENABle ON OFF
	Save the configuration every 60 seconds, and load it when Power On is turned Last



Version	Revision
	SA mode Limit Setup adds Fail to Save, which automatically saves screenshot and trace data when the Limit Test result is Fail. It can only be used when Fail to Stop is turned ON
	 Improvements: Preset optimization: When pressing the Preset button, it will first jump to the Preset menu instead of directly performing Preset; Touch Assist's Preset adds preset option Optimization System Info display content When taking screenshots, do not capture the message indicating successful screenshot Limit the length of numbers entered on the screen and keypad Add SCPI commands to read system messages:SYSTem:MESSage? Added screenshot function under the Help window Set the FFT menu to invalid when the SA mode cannot select FFT SA mode can open the Freq Counter for markers other than marker 1 The SA mode peak table displays the peak of the current trace The SA mode peak table displays the peak of the current trace, rather than the current marker's trace The dBc parameter range of the SA mode OBW is changed to negative numbers When Noise Marker is turned on in SA mode, set Detect Type to Average In SA/MA/EMI mode, Wait for Trigger is displayed only if Trigger is not triggered for 2 seconds. When using markers in SA/MA/EMI modes, display the marker info enlarged in the upper left corner of the screen SA/EMI mode display more information of limit fail and pass The MA mode supports the SCPI command: TRACe#[:DATA]? to get trace data SCPI command for setting marker X in MA mode: TRACe#:MARKer#:X supports specifying
	 Solved Issues: Fix the problem of the inconsistency between the numerical accuracy displayed in SA mode Freq menu Ref Offset and the status bar on the left Fix the problem of Marker display unit error when Noise Marker is turned on in SA mode Fix the problem of the SCPI command TRACe#:MODE in the SA mode setting trace type, which causes a crash when the selected trace exceeds the range. Fix the problem of not adding Freq Offset to the marker x value in SA mode Fix the problem of Correction errors when switching between X-Scale Lin and Log in SA mode Fix the problem of inconsistent units and settings for values obtained by SCPI commands:DISPlay:WINDow:TRACe:Y:RLEVel? in SA/EMI mode Fix the problen where Sweep Time may be incorrect when set EqLPF to Auto in MA mode
V3.2.2.6.0R7 2023/5/3	Notice: This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version, please update to V3.2.2.4.0 first and then proceed to update to the latest version. New Functionality:



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	Add PM demodulation in MA mode
	The time of analog demodulation in MA mode is adjustable
	Improvements:
	Add SCPI commands in MA mode:
	Set the scan time: [:SENSe]:SWEep:TIME
	Set the demodulation type: ADEMod:STYLe (new parameter is PM)
	Get AM parameters: FETCh:AM#?
	Get FM parameters: FETCh:FM#?
	Get PM parameters: FETCh:PM#?
	Add system SCPI command:
	*OPC for EMI mode
	Exit remote status: SYSTem: LOCal for all mode
	Solved Issues:
	Fix the problem that the bandwidth of the emi filter in SA mode
	Fix the problem that setting the TG Level in SA mode may cause TG to have no output
	Fix the problem that the n dB Marker measurement results in SA mode are inconsistent with
	the OBW measurement results
	Fix the problem that there is an invalid frequency menu in Harmonic in SA mode
	Fix the abnormality of the first scan in EMI mode
	Fix the problem that setting rbw may crash when qpd is not enabled in EMI mode
	Fix an issue where 'micro' relative units represented by 'u' were not recognized when reading
	files
V3.2.2.5.1R1	Notice:
2022/5/10	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	Improvements:
	Optimize the Ref level and Att couple
	Add SCPI commands in MA Mode
	•READ:ADEMod:AVG?
	•[:SENSe]:ADEMod:FM:DEVI?
	•[:SENSe]:ADEMod:FM:DRIFt?
	•[:SENSe]:BWIDth[:RESolution]
	•[:SENSe]:BWIDth[:RESolution]?
	•[:SENSe]:BWIDth:EQLPf
	•[:SENSe]:BWIDth:EQLPf?
	•CALCulate:MARKer#:PTPeak
	Add .trc file in EMI Mode
	Add .lic file auto scan



Version	Revision
	Solved Issues:
	• Fix pi/4 DPSK 和 pi/8 DPSK decode errors in MA mode
	Fix fft frequency error in narrow span in SA mode
	Fix trace avg calculation error in SA mode
	Fix the zero sweep type when fft in SA mode
V3.2.2.5.0	Notice:
2021/9/30	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	New Functionality:
	Add Ext Trigger Delay from 0-10 seconds in SA Mode
	Solved Issues:
	SA fix the difference between marker and peak and marker style; Fix Center Freq error; Fix
	limit fail to stop error; Fix Auto frequency error; In normalization, auto re-normalized after any
	setting changes
	EMI frequency offset error; saving std lim path error
	Web browser cannot change IP, and cannot login after changing password
V3.2.2.4.0	This version con not be rolled back
2021/1/15	Fix TG switch error at small RBW
	Fix Help and Limit file lost when Factory reset
	Fix CNR calc error when no peak found
	Fix OBW result overflow
	Fix Harmonic calc error at 100Hz RBW
	Fix Reflection Open+Short calibration action
	Fix spectrum amplitude error in DMA mode
	Optimize EMI .csv file content to all signal list
	Optimize EMI peak search
	Optimize Auto cal process
	Add Peak search to Spectrum in DMA mode
V3.2.2.3.3R1	
2020/12/01	New Functionality:
	Add EMI filter in SA for EMI option
	Solved Issues:
	Optimize the TG flatness and control procedure
	Optimize Help
	Fix Correction, .csv file, add peak numbers to 20 in EMI mode
	Fix amplitude error in DMA Mode
	Fix upgrade failure issue



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