

Vorcion	Povision
Version	Revision
V3.2.2.6.2R5	Notice:
2024/6/12	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 Eventionality
	New Functionality:
	Add Picture Viewer
	Add Open Source Acknowledge Add Remete Centrel Meda, when entering the interface displaye system time, limit status
	Add Remote Control Mode, when entering, the interface displays system time, limit status, avetam massages, etc., chiedding, Ul refrace, SCRI: DISPlay:////INDow:/ENAPle_ONIOEE
	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
	SA/VNA 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.
	Add Display Line in VNA/DTF/MA/RTSA/EMI mode
	When using markers in SA/VNA/DTF/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
	Return more marker information when using SCPI command :CALCulate#:MARKer#:Y? in SA
	mode
	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
	time units
	Solved Issues:
	• Fix the problem of the inconsistency between the numerical accuracy displayed in SA mode

SSA3000X-R Firmware Revision History



Version	Revision
	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
	Fix the problem of Max Hold error in RTSA mode
V3.2.2.6.0R7	Notice:
2023/5/3	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 ECal in VNA mode
	Add three new formats in VNA mode: Unwrap Phase/Real/Imaginary
	Add Z Reflection in VNA mode
	Add PM demodulation in MA mode
	The time of analog demodulation in MA mode is adjustable
	Improvements:
	Add SCPI command in VNA mode:
	Set the format Unwrap Phase/Real/Imaginary:
	CALCulate#[:SELected]:FORMat adds three new parameters for UWPH/REAL/IMAG
	Set Z Reflection:
	CALCulate#:TRACe#:CONVersion:FUNCtion OFF/ZREFlection
	Get the marker y value for Phase format with unwrap phase value:
	CALCulate#:FSCan:MARKer#:Y?
	Add SCPI commands for Calibration:
	Select Open Calibration [:SENSe#]:CORRection:COLLect:METHod[:RESPonse]:OPEN
	Select Short Calibration [:SENSe#]:CORRection:COLLect:METHod[:RESPonse]:SHORt
	Select Enhance calibration [:SENSe#]:CORRection:COLLect:METHod:ENHAnced
	Select Through Calibration [:SENSe#]:CORRection:COLLect:METHod[:RESPonse]:THRU
	Select 1 Port Calibration[:SENSe#]:CORRection:COLLect:METHod:SOLT1
	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:



Version	Revision
	*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 problem that the SCPI command: READ:ADEMod? would return an invalid value when
	reading the analog demodulation measurement results in MA 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 the problem of wrong reset when switching continue/single in RTSA mode
	• Fix the problem that the 3D Spectrogram in RTSA mode will be abnormally full when pressing
	pause under continuous scanning
	• 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 Cable Atten to correct cable loss in DTF Mode
	Add .trc file in EMI Mode
	Add .lic file auto scan
	Solved Issues:
	Fix the false signals in density view in RTSA mode
	 Fix pi/4 DPSK 和 pi/8 DPSK decode errors in MA mode
	 Fix calibration error when port extension on in VNA mode
	 Fix fft frequency error in narrow span in SA mode



Version	Revision
	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
	Add Limit in Log mag and Lin mag format; add calibration average; add s1p touchstone
	file save in VNA mode
	Improvements:
	 VNA sweep points up to 10001; Scale down to 0.001 in Smith chart;
	 MA Filter type Nyquist change to Raised Cosine to align SCPI command; improve filter
	performance in low frequency
	EMI RBW/Step from 1 to 3
	Solved Issues:
	• SA: Fixed the difference between marker and peak and marker style; Center Freq error;
	Limit fail to stop error; Auto frequency error; In normalization, auto re-normalized after any
	setting changes
	• VNA:Fixed Phase error; STA file saving error; CSA file loading error; S21 calibration
	error; Enhanced calibration error
	RTSA: Fixed continue peak preset error; freq step error
	EMI: Fixed frequency offset error; saving std lim path error
	Web browser: Fixed change IP error, Login error after changing password
V3.2.2.4.0	Fix TG switch error at small RBW
2021/1/15	 Fix Help and Limit file lost when Factory reset
2021/1/13	 Fix Auto open delay unit error in VNA mode
	 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
	This version con not be rolled back
V3.2.2.3.3R1	
2020/12/01	New Functionality:



Version	Revision
	Add EMI filter in SA for EMI option
	Solved Issues:
	Optimize the response in RTSA
	Optimize the TG flatness and control procedure
	Optimize Help
	Fix Correction, .csv file, add peak numbers to 20 in EMI mode
	Fix ADC overload warning error, and time unit error in Calibration in VNA Mode
	Fix amplitude error in DMA Mode
	Fix the frequency band downgrade to 3.2GHz on some units
	Fix upgrade failure issue
V3.2.2.3.2	
2020/09/09	New Functionality:
	Add VNA and DTF mode
	Update EMI option to a new EMI measurement mode
	Solved Issues:
	Fix bug in Help File
	Fix some ADC overload warning
	Fix some PvT and Density marker bugs.
	Fix Ch Power calculation bug in small span in SA Mode
	Fix amplitude bug in AMA Mode
	Fix peak search bug in SCPI command