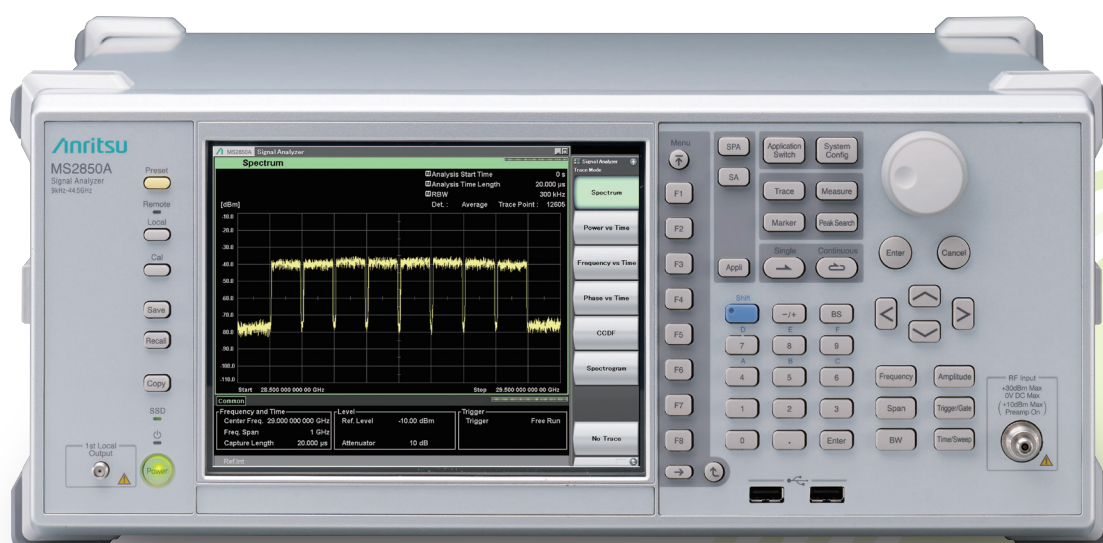**Anritsu** Advancing beyond

Signal Analyzer

MS2850A

MS2850A-047: 9 kHz to 32 GHz
MS2850A-046: 9 kHz to 44.5 GHz

Signal Analyzer MS2850A

This explains how to order the new MS2850A and MS2850A retrofit options and measurement software.
Follow the steps below to select the MS2850A configuration.
Functions marked "standard" are built-in. Options and measurement software can be added as necessary.

Steps for New Purchase

Step 1. Select Maximum Frequency Range (Required option; Frequency range not upgradeable.)

Outline	Option No.	Additional Information
Frequency range: 9 kHz to 32 GHz	MS2850A-047	Spectrum Analyzer/Signal Analyzer (Analysis Bandwidth 255 MHz)
Frequency range: 9 kHz to 44.5 GHz	MS2850A-046	K-connector

The following options are installed as standard and do not require separate orders when ordering the MS2850A-046/047.
Standard Software   MX269000A
Analysis Bandwidth 255 MHz   MS2850A-032
Microwave Preselector Bypass   MS2850A-067

Step 2. Select Analysis Bandwidth

Outline	Option No.	Additional Information
Analysis Bandwidth 255 MHz	Standard	
Analysis Bandwidth Extension to 510 MHz	MS2850A-033	Extend the analysis bandwidth to 510 MHz.
Analysis Bandwidth Extension to 1 GHz	MS2850A-034	Extend the analysis bandwidth to 1 GHz. *: Requires MS2850A-033

Step 3. Add Measurement Software

Outline	Option No.	Additional Information
5G Standard Measurement Software (Base License)	MX285051A	Base license of software that measures RF Tx characteristics of base stations and terminals using various digital wireless methods expected to be used at 5G. *: This license can't be used alone. *: Requires MX285051A-001 and/or 051
Pre-Standard CP-OFDM Downlink	MX285051A-001	Supports measurement of the RF characteristics of CP-OFDM modulation downlink signals expected to be used for 5G demonstration tests and test operations. *: Requires MX285051A
Pre-Standard CP-OFDM Uplink	MX285051A-051	Supports measurement of the RF characteristics of CP-OFDM modulation uplink signals expected to be used for 5G demonstration tests and test operations. *: Requires MX285051A
NR TDD sub-6 GHz Downlink	MX285051A-011	Supports measurement of the RF characteristics of 3GPP TS 38.211 sub-6 GHz downlink (TDD) signal *: Requires MX285051A
NR TDD sub-6 GHz Uplink	MX285051A-061	Supports measurement of the RF characteristics of 3GPP TS 38.211 sub-6 GHz uplink (TDD) signal *: Requires MX285051A
NR FDD sub-6 GHz Downlink	MX285051A-031	Supports measurement of the RF characteristics of 3GPP TS 38.211 sub-6 GHz downlink (FDD) signal *: Requires MX285051A
NR FDD sub-6 GHz Uplink	MX285051A-081	Supports measurement of the RF characteristics of 3GPP TS 38.211 sub-6 GHz uplink (FDD) signal *: Requires MX285051A
NR TDD mmWave Downlink	MX285051A-021	Supports measurement of the RF characteristics of 3GPP TS 38.211 mmWave downlink (TDD) signal *: Requires MX285051A
NR TDD mmWave Uplink	MX285051A-071	Supports measurement of the RF characteristics of 3GPP TS 38.211 mmWave uplink (TDD) signal *: Requires MX285051A
W-CDMA/HSPA Downlink Measurement Software	MX269011A	Supports W-CDMA/HSPA/HSPA Evolution compliant BS, and measurement of device RF Tx characteristics.
W-CDMA/HSPA Uplink Measurement Software	MX269012A	Supports W-CDMA/HSPA/HSPA Evolution compliant UE and measurement of device RF Tx characteristics.
GSM/EDGE Measurement Software	MX269013A	Supports GSM/EDGE (EGPRS) compliant BS, and measurement of UE and device RF Tx characteristics.
EDGE Evolution Measurement Software	MX269013A-001	Supports EDGE Evolution (EGPRS2) compliant BS, and measurement of UE and device RF Tx characteristics. *: Requires MX269013A
TD-SCDMA Measurement Software	MX269015A	Supports TD-SCDMA compliant repeaters, BS, and measurement of UE and device RF Tx characteristics.

Signal Analyzer MS2850A

Outline	Option No.	Additional Information
Vector Modulation Analysis Software	MX269017A	Supports evaluation of RF Tx characteristics of digital radio equipment and components for wide range of applications ranging from public facilities and private industry to aerospace and satellite.
APSK Analysis	MX269017A-001	Supports measuring RF Tx characteristics of 16/32APSK modulation signal. ∗: Requires MX269017A
Higher-Order QAM Analysis	MX269017A-011	Supports measuring RF Tx characteristics of 512/1024/2048QAM modulation signal. ∗: Requires MX269017A
LTE Downlink Measurement Software	MX269020A	Supports evaluation of 3GPP LTE FDD downlink signal Tx characteristics.
LTE-Advanced FDD Downlink Measurement Software	MX269020A-001	Supports evaluation of 3GPP LTE-Advanced FDD downlink signal Tx characteristics. ∗: Requires MX269020A
LTE Uplink Measurement Software	MX269021A	Supports evaluation of 3GPP LTE FDD uplink signal Tx characteristics.
LTE-Advanced FDD Uplink Measurement Software	MX269021A-001	Supports evaluation of 3GPP LTE-Advanced FDD uplink signal Tx characteristics. ∗: Requires MX269021A
LTE TDD Downlink Measurement Software	MX269022A	Supports evaluation of 3GPP LTE TDD downlink signal Tx characteristics.
LTE-Advanced TDD Downlink Measurement Software	MX269022A-001	Supports evaluation of 3GPP LTE-Advanced TDD downlink signal Tx characteristics. ∗: Requires MX269022A
LTE TDD Uplink Measurement Software	MX269023A	Supports evaluation of 3GPP LTE TDD uplink signal Tx characteristics.
LTE-Advanced TDD Uplink Measurement Software	MX269023A-001	Supports evaluation of 3GPP LTE-Advanced TDD uplink signal Tx characteristics. ∗: Requires MX269023A

Step 4. Add Other Signal Analyzer Options

Outline	Option No.	Additional Information
Phase Noise Measurement Function	MS2850A-010	Adds frequency offset range 10 Hz to 10 MHz phase noise measurement.
Noise Figure Measurement Function	MS2850A-017	Adds Noise Figure Measurement function. Noise Figure is measured with the measurement method of Y-factor method which uses a Noise Source∗. ∗: Noisecom, NC346 series See the MS2850A Data Sheet for supported noise sources.
Noise Floor Reduction	MS2850A-051	The Noise Floor Reduction (NFR) function increases the measurement accuracy for low-level signals. It subtracts the internal noise components (11 dB max. nominal) of the measuring instrument itself from the displayed measurement result.
Microwave Preamplifier	MS2850A-068	Increases level sensitivity from 100 kHz to 32 GHz/44.5 GHz
Low Second Harmonic Distortion	MS2850A-076	This option improves DANL and second harmonic distortion over 4 GHz when Preamp is Off and Microwave Preselector Bypass is Off.
Extended Specifications	MS2850A-072	Adds following items to MS2850A specifications: • Frequency response in a certain 100 MHz range within bandwidth • Phase linearity in a certain 100 MHz range within bandwidth • RF input VSWR
Secondary Storage Device	MS2850A-011	This removable secondary SSD is installed in the secondary SSD Option Slot of the MS2850A main unit to expand the user data storage space. It does not have the Windows OS installed. The MS2850A ships with it installed. Only one expansion SSD can be installed in the MS2850A.
Removable SSD, Win10	MS2850A-014	This additional user-changeable SSD contains the same Windows OS and programs as the factory installed system SSD. This removable SSD option supports a Windows 10 install for one specific MS2850A and is for use during service repair and calibration. It ships with the MS2850A main unit and can be substituted for the SSD installed in the MS2850A at shipment.
External Interface for High Speed Data Transfer PCIe	MS2850A-053	The digitized data file for the large wideband signal data captured by the main unit is transferred at high speed to the PC using PCIe connector.
External Interface for High Speed Data Transfer USB3.0	MS2850A-054	The digitized data file for the large wideband signal data captured by the main unit is transferred at high speed to the PC using USB3.0 connector.

Step 5. Add Accessories

Outline	Option No.	Additional Information
Inline Peak Power Sensor (350 MHz to 4 GHz)	MA24105A	Supports 350 MHz to 4 GHz and operates on Windows.
USB Power Sensor (50 MHz to 6 GHz)	MA24106A	Supports 50 MHz to 6 GHz and operates on Windows.
Microwave USB Power Sensor (10 MHz to 8 GHz)	MA24108A	Supports 10 MHz to 8 GHz and operates on Windows.
Microwave USB Power Sensor (10 MHz to 18 GHz)	MA24118A	Supports 10 MHz to 18 GHz and operates on Windows.
Microwave USB Power Sensor (10 MHz to 26 GHz)	MA24126A	Supports 10 MHz to 26 GHz and operates on Windows.

Signal Analyzer MS2850A

Retrofit to Current MS2850A

Hardware Option Retrofit

The following hardware options can be retrofitted. Order the Z1957A Installation Kit as well.
The M2850A main unit must be returned to Anritsu for retrofitting hardware options.

Model/Order No.		Name	Reference Steps
Hardware Options	MS2850A-133	Analysis Bandwidth Extension to 510 MHz Retrofit	2
	MS2850A-134	Analysis Bandwidth Extension to 1 GHz Retrofit	
	MS2850A-110	Phase Noise Measurement Function Retrofit	4
	MS2850A-117	Noise Figure Measurement Function Retrofit	
	MS2850A-151	Noise Floor Reduction Retrofit	
	MS2850A-168	Microwave Preamplifier Retrofit	
	MS2850A-172	Extended Specifications Retrofit	
	MS2850A-176	Low Second Harmonic Distortion Retrofit	
	MS2850A-114[1] MS2850A-214[1]	Removable SSD, Win10 Retrofit	
	MS2850A-111	Secondary Storage Device Retrofit	
	MS2850A-153	External Interface for High Speed Data Transfer PCIe Retrofit	
	MS2850A-154	External Interface for High Speed Data Transfer USB3.0 Retrofit	
	MS2850A-182 MS2850A-282	CPU/Windows10 Upgrade Retrofit	—
Application Parts	Z1957A	Installation Kit (Required when retrofitting options or installing software)	—

Option 2xx is the option for customers to upgrade at their nearest local service center outside Japan.

*1: When retrofitting the MS2850A-114/214, the MS2850A main unit without the removed SSD can be returned to Anritsu.
The CPU/Windows10 Upgrade Retrofit MS2850A-182/282 option is required when the MS2850A OS is not Windows 10.

Signal Analyzer MS2850A

Retrofit to Current MS2850A

Software Option Retrofit
The following software options can be retrofitted. Order the Z1957A Installation Kit as well.
The MS2850A does not require return to the Anritsu for software retrofitting.

	Model/Order No.	Name	Reference Steps
Measurement Software	MX285051A	5G Standard Measurement Software (Base License)	3
	MX285051A-001	Pre-Standard CP-OFDM Downlink	
	MX285051A-051	Pre-Standard CP-OFDM Uplink	
	MX285051A-011	NR TDD sub-6 GHz Downlink	
	MX285051A-061	NR TDD sub-6 GHz Uplink	
	MX285051A-031	NR FDD sub-6 GHz Downlink	
	MX285051A-081	NR FDD sub-6 GHz Uplink	
	MX285051A-021	NR TDD mmWave Downlink	
	MX285051A-071	NR TDD mmWave Uplink	
	MX269011A	W-CDMA/HSPA Downlink Measurement Software	
	MX269012A	W-CDMA/HSPA Uplink Measurement Software	
	MX269013A	GSM/EDGE Measurement Software	
	MX269013A-001	EDGE Evolution Measurement Software	
	MX269015A	TD-SCDMA Measurement Software	
	MX269017A	Vector Modulation Analysis Software	
	MX269017A-001	APSK Analysis	
	MX269017A-011	Higher-Order QAM Analysis	
	MX269020A	LTE Downlink Measurement Software	
	MX269020A-001	LTE-Advanced FDD Downlink Measurement Software	
	MX269021A	LTE Uplink Measurement Software	
	MX269021A-001	LTE-Advanced FDD Uplink Measurement Software	
	MX269022A	LTE TDD Downlink Measurement Software	
	MX269022A-001	LTE-Advanced TDD Downlink Measurement Software	
	MX269023A	LTE TDD Uplink Measurement Software	
	MX269023A-001	LTE-Advanced TDD Uplink Measurement Software	
Application Parts	Z1957A	Installation Kit (Required when retrofitting options or installing software)	—

Software Update

Software is updated regularly to add new functions, improve performance and fix bugs.
Download the latest software from the following URL. Register before use.

Software Download Site URL
https://login.anritsu.com/signin

Signal Analyzer MS2850A

Options Configuration Guide

Hardware Configuration
Frequency range (MS2850A-046/047) not upgradable.

✓ = Can be installed, No = Cannot be installed, R = Require, U = Upgrade

Option	Name	Retrofit	MS2850A-046 (44.5 GHz model)	MS2850A-047 (32 GHz model)	MS2850A-032 (standard install)	MS2850A-033	MS2850A-034	MS2850A-010	MS2850A-017	MS2850A-067 (standard install)	MS2850A-068	MS2850A-072	MS2850A-076	MS2850A-051	MS2850A-011	MS2850A-014	MS2850A-053	MS2850A-054	MS2850A-182
			Addition to Main unit		Combination with "Option" (Refer to the left line)														
MS2850A-032	Analysis Bandwidth 255 MHz	—	Standard install	Standard install															
MS2850A-033	Analysis Bandwidth Extension to 510 MHz	Yes	✓	✓															
MS2850A-034	Analysis Bandwidth Extension to 1 GHz	Yes	✓	✓		R													
MS2850A-010	Phase Noise Measurement Function	Yes	✓	✓															
MS2850A-017	Noise Figure Measurement Function	Yes	✓	✓							U								
MS2850A-067	Microwave Preselector Bypass	—	Standard install	Standard install															
MS2850A-068	Microwave Preamplifier	Yes	✓	✓															
MS2850A-072	Extended Specifications	Yes	✓	✓															
MS2850A-076	Low Second Harmonic Distortion	Yes	✓	✓															
MS2850A-051	Noise Floor Reduction	Yes	✓	✓															
MS2850A-011	Secondary Storage Device	Yes	✓	✓															
MS2850A-014	Removable SSD, Win10	Yes*1	✓	✓															
MS2850A-053	External Interface for High Speed Data Transfer PCIe	Yes	✓	✓															
MS2850A-054	External Interface for High Speed Data Transfer USB3.0	Yes	✓	✓															
MS2850A-182	CPU/Windows10 Upgrade Retrofit*2	Yes	✓	✓															

*1: The CPU/Windows10 Upgrade Retrofit MS2850A-182/282 option is required when the MS2850A OS is not Windows 10.

*2: Replace the MS2850A CPU board with Windows Embedded Standard 7 (Windows 7) and upgrade the operating system to Windows 10 IoT Enterprise LTSC2019.
　　Windows 7 is installed in MS2850A units ordered until August 2020.
　　Windows 10 is installed in MS2850A units ordered from September 2020 and has a label indicating C2 attached near the serial number.

Software Configuration

Option	Name	MS2850A-046 (44.5 GHz model)	MS2850A-047 (32 GHz model)	MS2850A-033 (510 MHz)	MS2850A-034 (1 GHz)	Note
		Addition to Main unit ✓ = Can be installed		Analysis Bandwidth option U = Upgrade		Note
MX285051A	5G Standard Measurement Software (Base License)	✓	✓	U	U	This license can't be used alone. Requires any one of MX285051A-001/ 011/021/031/051/061/071/081
MX285051A-001	Pre-Standard CP-OFDM Downlink	✓	✓	U	U	Requires MX285051A
MX285051A-051	Pre-Standard CP-OFDM Uplink	✓	✓	U	U	Requires MX285051A
MX285051A-011	NR TDD sub-6 GHz Downlink	✓	✓			Requires MX285051A
MX285051A-061	NR TDD sub-6 GHz Uplink	✓	✓			Requires MX285051A
MX285051A-031	NR FDD sub-6 GHz Downlink	✓	✓			Requires MX285051A
MX285051A-081	NR FDD sub-6 GHz Uplink	✓	✓			Requires MX285051A
MX285051A-021	NR TDD mmWave Downlink	✓	✓	U	U	Requires MX285051A
MX285051A-071	NR TDD mmWave Uplink	✓	✓	U	U	Requires MX285051A
MX269011A	W-CDMA/HSPA Downlink Measurement Software	✓	✓			
MX269012A	W-CDMA/HSPA Uplink Measurement Software	✓	✓			
MX269013A	GSM/EDGE Measurement Software	✓	✓			
MX269013A-001	EDGE Evolution Measurement Software	✓	✓			Requires MX269013A
MX269015A	TD-SCDMA Measurement Software	✓	✓			
MX269020A	LTE Downlink Measurement Software	✓	✓			
MX269020A-001	LTE-Advanced FDD Downlink Measurement Software	✓	✓			Requires MX269020A
MX269021A	LTE Uplink Measurement Software	✓	✓			
MX269021A-001	LTE-Advanced FDD Uplink Measurement Software	✓	✓			Requires MX269021A
MX269022A	LTE TDD Downlink Measurement Software	✓	✓			
MX269022A-001	LTE-Advanced TDD Downlink Measurement Software	✓	✓			Requires MX269022A
MX269023A	LTE TDD Uplink Measurement Software	✓	✓			
MX269023A-001	LTE-Advanced TDD Uplink Measurement Software	✓	✓			Requires MX269023A
MX269017A	Vector Modulation Analysis Software	✓	✓			
MX269017A-001	APSK Analysis	✓	✓			Requires MX269017A
MX269017A-011	Higher-Order QAM Analysis	✓	✓			Requires MX269017A

Signal Analyzer MS2850A Ordering Information

Please specify the model/order number, name and quantity when ordering.
The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order No.	Name	
MS2850A	**Main Unit**	
	Signal Analyzer	
	Standard Accessories	
P0031A	Power Cord:	1 pc
Z0541A	USB Memory (≥1 GB):	1 pc
	USB Mouse:	1 pc
	Install DVD-ROM (Application software,	
	instruction manual DVD-ROM):	1 pc
	Options	
MS2850A-047	32 GHz Signal Analyzer	
MS2850A-046	44.5 GHz Signal Analyzer	
MS2850A-033	Analysis Bandwidth Extension 510 MHz	
MS2850A-034	Analysis Bandwidth Extension 1 GHz	
MS2850A-010	Phase Noise Measurement Function	
MS2850A-017	Noise Figure Measurement Function	
MS2850A-068	Microwave Preamplifier	
MS2850A-072	Extended Specifications	
MS2850A-076	Low Second Harmonic Distortion	
MS2850A-051	Noise Floor Reduction	
MS2850A-011	Secondary Storage Device	
MS2850A-014	Removable SSD, Win10	
MS2850A-053	External Interface for High Speed Data Transfer PCIe	
MS2850A-054	External Interface for High Speed Data Transfer USB3.0	
	Retrofit Options	
MS2850A-133	Analysis Bandwidth Extension 510 MHz Retrofit	
MS2850A-134	Analysis Bandwidth Extension 1 GHz Retrofit	
MS2850A-110	Phase Noise Measurement Function Retrofit	
MS2850A-117	Noise Figure Measurement Function Retrofit	
MS2850A-168	Microwave Preamplifier Retrofit	
MS2850A-172	Extended Specifications Retrofit	
MS2850A-176	Low Second Harmonic Distortion Retrofit	
MS2850A-151	Noise Floor Reduction Retrofit	
MS2850A-111	Secondary Storage Device Retrofit	
MS2850A-114*1	Removable SSD, Win10 Retrofit	
MS2850A-214*1	Removable SSD, Win10 Retrofit	
MS2850A-153	External Interface for High Speed Data Transfer PCIe Retrofit	
MS2850A-154	External Interface for High Speed Data Transfer USB3.0 Retrofit	
MS2850A-182	CPU/Windows10 Upgrade Retrofit	
MS2850A-282	CPU/Windows10 Upgrade Retrofit	

Model/Order No.	Name
	Software Options
	DVD-ROM with License and Operation manuals
MX285051A	5G Standard Measurement Software (Base License)
	(Requires MX285051A-001 and/or 011/ 021/051/061/071)
MX285051A-001	Pre-Standard CP-OFDM Downlink (Require MX285051A)
MX285051A-051	Pre-Standard CP-OFDM Uplink (Require MX285051A)
MX285051A-011	NR TDD sub-6 GHz Downlink (Require MX285051A)
MX285051A-061	NR TDD sub-6 GHz Uplink (Require MX285051A)
MX285051A-031	NR FDD sub-6 GHz Downlink (Require MX285051A)
MX285051A-081	NR FDD sub-6 GHz Uplink (Require MX285051A)
MX285051A-021	NR TDD mmWave Downlink (Require MX285051A)
MX285051A-071	NR TDD mmWave Uplink (Require MX285051A)
MX269011A	W-CDMA/HSPA Downlink Measurement Software
MX269012A	W-CDMA/HSPA Uplink Measurement Software
MX269013A	GSM/EDGE Measurement Software
MX269013A-001	EDGE Evolution Measurement Software (Requires MX269013A)
MX269015A	TD-SCDMA Measurement Software
MX269017A	Vector Modulation Analysis Software
MX269017A-001	APSK Analysis (Requires MX269017A)
MX269017A-011	Higher-Order QAM Analysis (Requires MX269017A)
MX269020A	LTE Downlink Measurement Software
MX269020A-001	LTE-Advanced FDD Downlink Measurement Software (Requires MX269020A)
MX269021A	LTE Uplink Measurement Software
MX269021A-001	LTE-Advanced FDD Uplink Measurement Software (Requires MX269021A)
MX269022A	LTE TDD Downlink Measurement Software
MX269022A-001	LTE-Advanced TDD Downlink Measurement Software (Requires MX269022A)
MX269023A	LTE TDD Uplink Measurement Software
MX269023A-001	LTE-Advanced TDD Uplink Measurement Software (Requires MX269023A)
	Warranty Service
MS2850A-ES210	2 years Extended Warranty Service
MS2850A-ES310	3 years Extended Warranty Service
MS2850A-ES510	5 years Extended Warranty Service
	Application Parts
MA24105A	Inline Peak Power Sensor
	(350 MHz to 4 GHz, with USB A to mini B cable)
MA24106A	USB Power Sensor
	(50 MHz to 6 GHz, with USB A to mini B cable)
MA24108A	Microwave USB Power Sensor
	(10 MHz to 8 GHz, with USB A to Micro-B cable)
MA24118A	Microwave USB Power Sensor
	(10 MHz to 18 GHz, with USB A to Micro-B cable)
MA24126A	Microwave USB Power Sensor
	(10 MHz to 26 GHz, with USB A to Micro-B cable)
	External Interface for High Speed Data Transfer
U0088A	PCIe Host Adapter
J1749A	PCIe x8 Cable (2 m)
J1749B	PCIe x8 Cable (5 m)

The following options are installed as standard and do not require separate orders when ordering the MS2850A-046/047.

Standard Software	MX269000A
Analysis Bandwidth 255 MHz	MS2850A-032
Microwave Preselector Bypass	MS2850A-067

Option 2xx is the option for customers to upgrade at their nearest local service center outside Japan.

Requires Installation Kit Z1957A when retrofitting options or installing software.

The instruction manuals are published on our website except some.

*1: The CPU/Windows10 Upgrade Retrofit MS2850A-182/282 option is required when the MS2850A OS is not Windows 10.

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