

Wi-SUN RF Conformance Auto-Test

MX705010A Wi-SUN PHY Measurement Software

The MX705010A Wi-SUN PHY Measurement Software supports measurement of Wi-SUN Alliance PHY Conformance test cases using the MS269xA/MS2830A Signal Analyzer*. This software also supports automatic TELEC T245 tests.

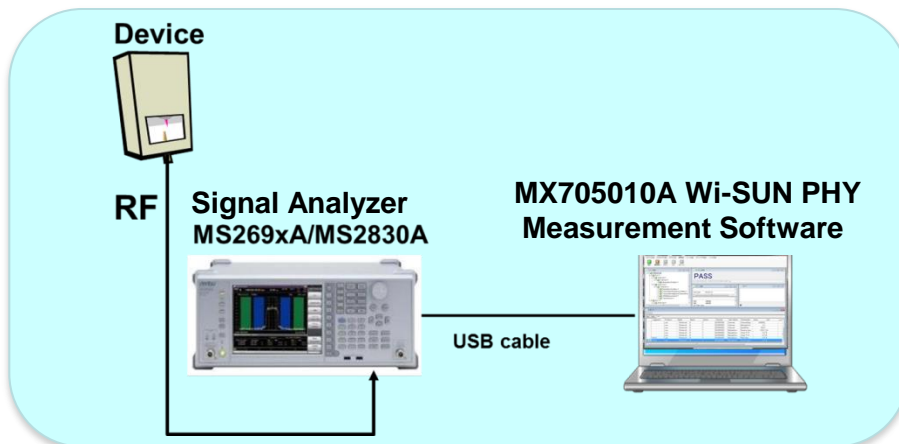
“This is the ideal solution for efficient RF tests of Wi-SUN devices and improves design work.”

*The MS2830A Signal Analyzer is certified by the Wi-SUN alliance for performing PHY Conformance tests.

Features

- This PC software performs remote control of the signal analyzer connected to the PC via USB cable.
- Wi-SUN PHY Transmitter Test:
 - Automatic measurement of Wi-SUN Alliance PHY Conformance test items
- Wi-SUN PHY Receiver Test:
 - Supports Wi-SUN Alliance PHY Conformance test signals and control methods for signal generator option
- TELEC T245 Test:
 - Automatic measurement and result evaluation

■ Connection Diagram



■ Test Items

Wi-SUN PHY Transmitter Test

1	Modulation Quality
2	Transmitter Frequency Offset
3	Transmitter Adjacent Channel Power Ratio
4	Test Vectors

Wi-SUN PHY Receiver Test

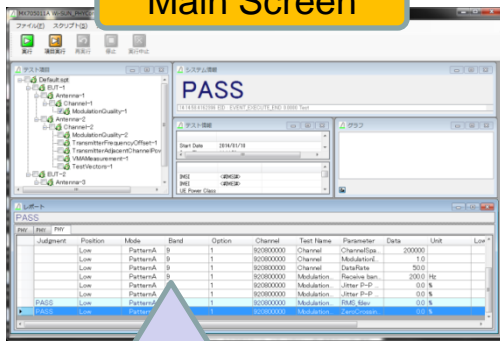
1	Receiver Sensitivity Test
2	Packet Test

TELEC-T245 Test

1	Frequency Tolerance
2	Occupied Bandwidth (OBW)
3	Unwanted Emissions
4	Antenna Power Tolerance
5	Adjacent Channel Leakage
6	Secondary Unwanted Emission
7	Tx Time Control Equipment
8	Carrier Sense Function

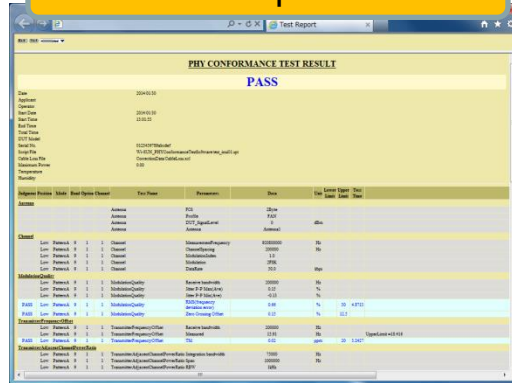
■ MX705010A Screens

Main Screen



Measurement Results Display

Results Output Screen



■ Signal Analyzer (MS2830A Configuration Example)

Model	Name	Note
MS2830A	Signal Analyzer	V6.01.00 or newer
MS2830A-040	3.6 GHz Signal Analyzer	Choose one of them.
MS2830A-041	6 GHz Signal Analyzer	
MS2830A-043	13.5 GHz Signal Analyzer	
MS2830A-002	High Stability Reference Oscillator	
MS2830A-006	Analysis Bandwidth 10 MHz	
MX269017A	Vector Modulation Analysis Software	V6.01.00 or newer
MS2830A-020	3.6 GHz Vector Signal Generator	Choose one of them.
MS2830A-021	6GHz Vector Signal Generator	
MS2830A-022	Low Power Extension for Vector Signal Generator	
MS2830A-027	ARB Memory Upgrade 256 Msa for Vector Signal Generator	
MX269902A	TDMA IQproducer	

■ Operating Environment (MX705010A)

Item	Explanation
OS	Microsoft Windows® 7 SP1 or newer
Memory	4 GB minimum
HDD Free Space	80 GB minimum
Display Resolution	WXGA 1280 × 768 pixels or more
USB I/F	USB 2.0 Requires PC with two USB ports for operation as host ✓For remote control of signal analyzer and insertion of license dongle ✓Use of other USB equipment requires PC with three USB ports PC: A type, Signal Analyzer: B type USB cables are not provided with this software.
Software	Microsoft Excel 2010 or 2013
National Instruments NI-488.2	V3.1.1 or newer

- Windows® 7 is a registered trademark and trademark of Microsoft Corporation in the USA and other countries.
- This product was developed jointly with the National Institute of Information and Communications Technology (NICT).