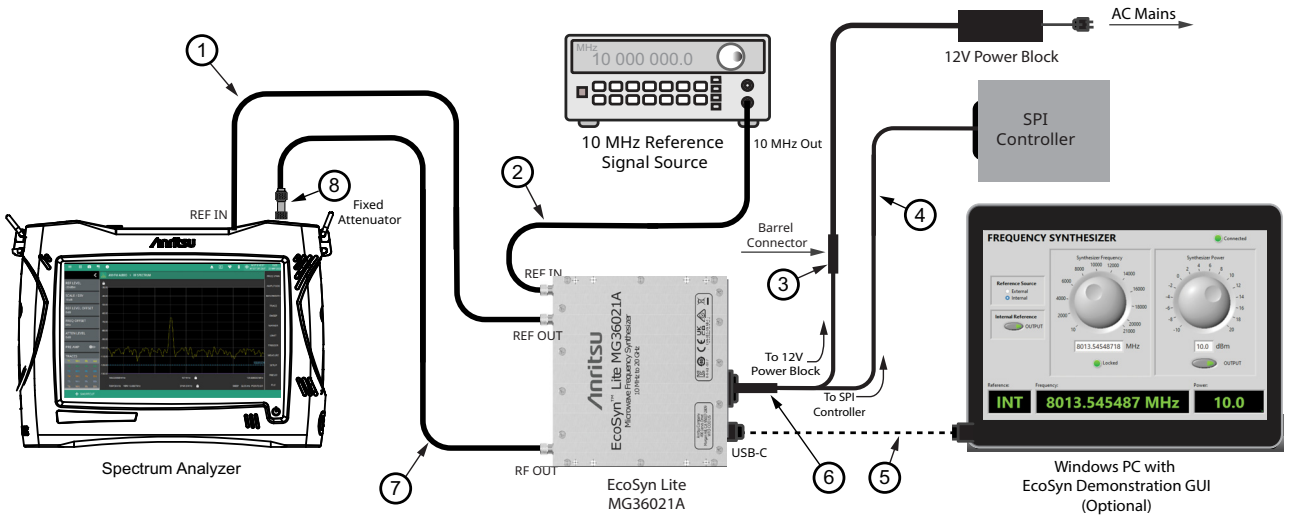
Quick Start Guide

This Quick Start Guide provides the initial setup and example commands. Use the EcoSyn™ Lite User Guide (10370-10387) for operation and command settings.

Measurement Setup Example

1. Connect the MG36021A REF OUT to the Spectrum Analyzer REF IN Port.
2. Connect a 10 MHz reference signal to the MG36021A REF IN port.
3. Use the barrel connector to connect the Power Block cable to the Control/SPI cable.
4. Connect the Control/SPI cable to the EcoSyn Lite SPI/Controller connector input.
5. Connect MG36021A USB to the PC with DEMO GUI. (Optional)
6. Connect Control/SPI cable to EcoSyn Lite SPI/Controller connector. See “SPI Controller Cable Alignment” on page 2
7. Connect the MG36021A RF OUT into a 10 dB fixed attenuator.
8. Connect the 10 dB fixed attenuator to the Spectrum Analyzer RF IN port.

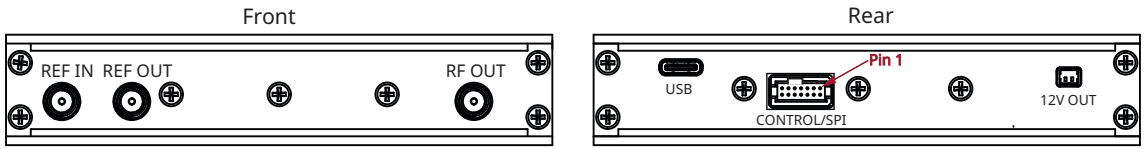


Front panel ports

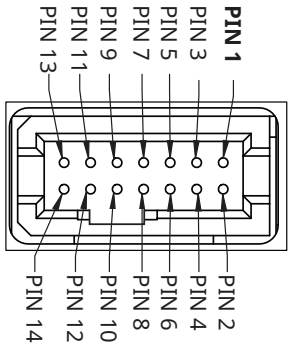
REF IN, REF OUT, RF OUT

Rear panel ports

12V Out, SPI Control, USB Control



SPI Control Pins



SPI Control Pin Designators

PWR_+12V	Pin 1, 2
N/C	Pin 3, 4
SPI_CLK	Pin 5
SPI_SS	Pin 6
LOCK	Pin 7
SPI_MISO	Pin 8
REF LOCK	Pin 9
SPI_MOSI	Pin 10
GND	Pin 11
TRIGGER	Pin 12
RESET	Pin 13
GND	Pin 14

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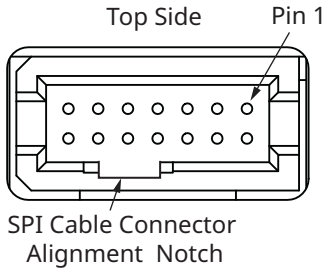
SPI Controller Cable Alignment

To insert the 2100-43-R Development cable to EcoSyn Lite connector, match the cable's tab to the connector notch as shown.



SCPI EcoSyn Lite Startup Command
System Language

SCPI is the default language. To change the language, use the SYST:LANG command

:SYST:LANG <SCPI|QSYN>
:SYST:LANG?

Title: System Language

Description: Selects the instrument's external interface language to SCPI or QSYN. In SCPI, this value can also be queried. In QSYN mode, SYST:LANG can be used to set the language back to SCPI but cannot be queried.

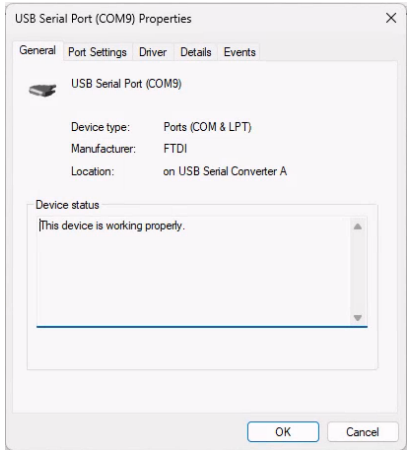
Parameter(s): <SCPI|QSYN>

USB Device Manager

Install an FTDI driver to communicate with USB Serial Port devices. The serial port parameters on the host PC must be set as follows:

- 8 bits
- No parity
- 1 stop bit
- 115200 baud
- No flow control

When connected, the device manager displays the device status as shown. (Using COM9 as an example) Refer to the EcoSyn Lite User Guide (10370-10387) for further programming instructions.



Set Output Frequency and Turn RF On

See the EcoSyn Lite User Guide (10370-10387) for SCPI command descriptions and QuickSyn command compatibility.

Turn RF on

OUTP ON

Set Output Frequency to 16 GHz

FREQ 16 GHZ

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