

Anritsu Advancing beyond

IQ Control Hub Software

MX819040PC



Accelerating 5G/6G Research

100 MHz × 4ch IQ

MATLAB[®] enabled SDR Software

IQ Control Hub Software
MX819040PC



The IQ Control Hub supports MATLAB[®] compatible formats and facilitates multiple processes from IQ data analysis to arbitrary waveform generation. When used in combination with MD8190A, this software enables seamless RF signal reception, transmission, and evaluation, streamlining the evaluation process for various wireless systems including Cellular, Wi-Fi, and V2X.

Seamless implementation of RF signal reception, retransmission, and evaluation

The IQ Control Hub seamlessly integrates multiple processes from RF signal capture using MD8190A and import of captured waveforms to waveform output according to specified conditions. Linking received signals smoothly to evaluation, playback, and retransmission enables seamless implementation of reception, transmission, and evaluation.

Simple IQ analysis and waveform generation environment to build on MATLAB[®] experience

The IQ Control Hub supports MATLAB[®] compatible formats and facilitates multiple processes from IQ data analysis to arbitrary waveform generation. Anyone experienced with MATLAB[®] can utilize their accumulated know-how, which helps reduce the burden of introduction.

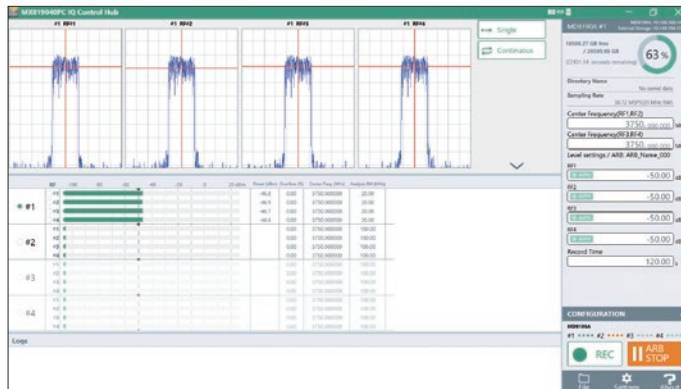
Easy and flexible capture of frequencies of various wireless systems

The IQ Control Hub can be configured flexibly with either a single unit or two connected units. It can easily capture the target frequencies of various wireless systems including Cellular, Wi-Fi, and V2X. Capturing multiple frequency signals simultaneously enables efficient measurement and analysis in diverse wireless environments.

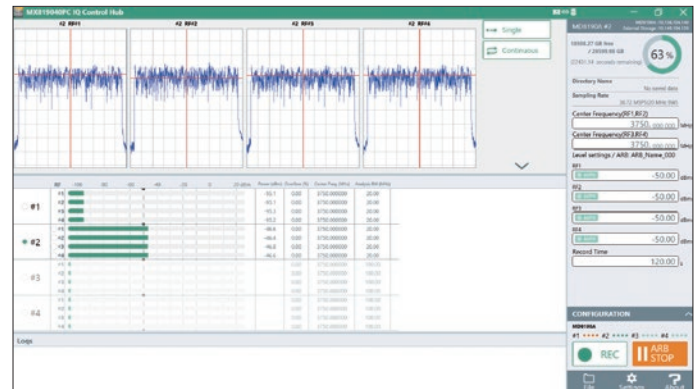
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Features and Value of IQ Control Hub

The IQ Control Hub is software that centrally controls and manages radio signal transmission and reception as IQ data. It allows you to transmit waveforms designed and generated with MATLAB and to capture and analyze RF signals received in a real environment using a workflow that is centered on common IQ data. The software works seamlessly with a MATLAB environment familiar to researchers and developers, enabling wireless evaluation and PoC testing to be conducted efficiently without separating the design process from the actual measurement.



While transmitting



While capturing

Main Uses

- Transmission and reception evaluation for wireless systems
- Waveform and algorithm verification
- OTA testing and wireless evaluation in a field environment
- Comparison and analysis of designed and measured waveforms
- Radio signal evaluation for PoC and R&D

License Restrictions

- This software is provided under a standalone license, which can be enabled only for a single control PC at a time.
- A network license is not available.
- If you change the existing control PC, you will need to have a license issued again.
- If the system environment of the PC (e.g., the time setting) is changed improperly, the license may become invalid.

Specifications

Recommended Specifications

OS	Windows 11 64 bit
CPU	Intel® Core™ i7-8650U 1.90 GHz or higher
Memory	16 GB or more (recommended)
Remaining Storage Capacity	20 GB or more (recommended)
LCD size	12.1 inches or larger
Screen Resolution	1920 × 1080 or more
Display Scale	125% or less (when the screen resolution is 1920 × 1080)
Interface	Gigabit Ethernet (1000Base-T) network adapter

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/symbol	Product name
MD8190A	Universal RF Unit
MD8190A-001	0.4–6GHz TRX RF Unit
MX819030A	Universal RF Platform
MX819030A-030	Universal RF Platform Basic
MX819040PC	IQ Control Hub
MX819040PC-PL001	RF to IQ Receiver
MX819040PC-PL002	IQ to RF Transmitter
MX819040PC-SS100	IQ Control Hub Support Service
J1440A	Applied Parts
J0127A	LAN cable
Z2143A	COAXIAL CORD, 1.0M
J1933A	External Storage PC
Z1993A	OPTICAL FIBER CABLE MPO 3M
G0366A	Optical Connector Cleaner (MPO)
J1936A	100G SR4 850 nm QSFP28
	DC cable



Specifications are subject to change without notice.

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