

LabWindows/CVI 7.x Visa Compatible VXI Plug & Play Driver for the IFR3410 Series Of Signal Generators (Issue 2.4).

Version History

V02.40	2008-08-07	<p>Added EACP to [SOURCE]:POWER:OPTimisation command (Firmware 4.11+)</p> <p>Split-band IQ self-cal - IQ self-cal can be performed across two or more frequency bands.</p> <p>Added RF level optimisation.</p> <p>Added MULTiband and LISTfreq to CAL:IQUS:MODE (Firmware 4.06+)</p> <p>ARB Retriggering - ARB now has new facilities for playing waveforms a repeat number of times and allows waveforms to be re-triggered.</p> <p>A new selection, Restart, can be enabled for waveform. (Firmware 4.03+)</p>
V02.30	2005-04-12	<p>List Mode Operation Now an Option (Firmware 4.03+)</p> <p>In ifr341x_arbTrigDelay_query command mnemonic changed from IQ:ARB:TRIGger:HOLDoff to IQ:ARB:TRIGger:DElay (Firmware 4.03+)</p>
V02.20	2005-01-19	<p>List Mode Operation Commands added.</p> <p>List Mode Application Added</p> <p>Carrier Frequencies Phase Noise Optimisation/? added</p> <p>OptionFitted added to check if a particular Option is Fitted.</p> <p>Pulse Mod, Arb, RTBB, Diff IQ and List Mode if fiited bool added to ifr341x_instrData</p> <p>Sweep Trigger Polarity Command/? added</p> <p>All Dwell Times actually in seconds NOT msec - corrected</p> <p>Added Aeroflex as company returned name (IFR still works).</p> <p>Removed delays for ARB file loading.</p> <p>Made Block loading size dynamic to decrease ARB load time</p> <p>LARGE_BUFFER_SIZE increased to 4096L (ARB list can be more than 1024)</p> <p>HUGH_BUFFER_SIZE increased to 65536L (Error definitions larger than previous value)</p>
V02.10	2004-06-09	<p>This update is to incorporate all changes required for GPIB Command Set for Version 2.10 firmware</p> <p>Added FHop Random to set PN code for Hopping</p> <p>Diag Attenuator Count Removed</p> <p>6GHz instrument option implemented (3416)</p>

Included Files:

Ifr341x_32.dll
Ifr341x.lib (msvc)
Ifr341x.lib (Borland)
Ifr341x.h, ifr341x_utilities.h
ifr341x.c, ifr341x.fp, ifr341x.hlp, Ifr341x.doc.
ifr341x_utilities.
Ifr341x_32.dll & ifr341x.lib
ifr341xGettingStartedtest.c, ifr341xGettingStartedtest.prj,
ifr341xGettingStarted.c, ifr341xGettingStarted.h
Creating the LabView Support file LLB.doc
Creating the LabView Support file LLB.doc
License.doc, License.pdf, License.txt
Readme 341x.doc, Readme 341x.pdf, Readme 341x.htm

Install Path:

C:\VXIpnp\WinNT\Bin
C:\VXIpnp\WinNT\lib\msc
C:\VXIpnp\WinNT\lib\bc
C:\VXIpnp\WinNT\include
C:\VXIpnp\WinNT\ifr341x
C:\VXIpnp\WinNT\ifr341x
C:\VXIpnp\WinNT\ifr341x\WinNT
C:\VXIpnp\WinNT\ifr341x\Getting Started
C:\VXIpnp\WinNT\ifr341x\Getting Started
C:\VXIpnp\WinNT\ifr341x
C:\VXIpnp\WinNT\ifr341x
C:\VXIpnp\WinNT\ifr341x
C:\VXIpnp\WinNT\ifr341x

The DLL file was created under WinXP. Version created in WinNT in sub directories.

For Windows NT the above directories will all start C:\VXIpnp\WinNT.

To use this driver Visa 3.1 RTE is required. If used outside the CVI development package the CVI 7.0 RTE is also required. **Please NOTE you must install the Visa RTE BEFORE installing the CVI RTE.**

Link to Visa RTE (Latest):

[VISA RTE](#)

Link to CVI RTE (Latest):

[CVI RTE](#)

The Getting Started routines are provided to give the user examples on how to run some basic functions on the ifr341x instrument.

Examples:

- Initialise the instrument
- How to format the ARB memory (rem as default as this will delete ALL ARB files)
- Load and run an ARB file
- Configure and run AM waveform
- Configure and run FM waveform
- Configure and run PM waveform
- Configure and run List Mode example
- Configure and run Sweep example

Converting to LabView

Please see document "CREATING_THE_LABVIEW 8.5_SUPPORT_FILE_LL.B.DOC" and CREATING_THE_LABVIEW 6.1_SUPPORT_FILE_LL.B.DOC