

# IVI.NET driver history for the R&S® FPH / FPC Signal Analyzers

## Products:

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## **3 Customer support**

# 1 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Instrument	Supported Firmware	Remarks
FPH	2.40	
FPC	1.80	

## 2 Revision History

### Version 1.80.0 / 10 – 2023

- \* Support for FPH FW 2.40/FPC FW 1.80
- \* Updated to RsCore version 3.10.0

\* New properties/methods:

- RsFph.Trace.QueryMemoryData(Trace)
- RsFph.FileFph.SaveToCSV(string)
- RsFph.PowerMeter.Configuration.Zero
- RsFph.DigitalDemodulation.Configuration.Standard
- RsFph.VectorNetworkAnalyzer.InterferenceSuppresionEnabled
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- RsFph.UtilityFunctions.QueryOPC()
- RsFph.UtilityFunctions.QueryOPC(int)
- RsFph.UtilityFunctions.InstrumentOptions()
- RsFph.UtilityFunctions.HasOptionInstalled(string)

\* Deleted properties/methods:

- RsFph.UtilityFunctions.QueryOPC

### Version 1.41.1 / 02 – 2021

- \* New core 2.13.0

### Version 1.41.0 / 01 – 2021

- \* New core 2.12.0 for AnyCPU driver assembly build

### Version 1.40.0 / 08 – 2019

- \* Support for FPH FW 1.70/FPC FW 1.40

\* New subsystems:

- Vector Network Analyzer

\* New properties/methods:

- RsFph.Frequency.ChannelTableSelect
- RsFph.TrackingGenerator.Attenuation
- RsFph.TrackingGenerator.ZeroSpanEnabled
- RsFph.TrackingGenerator.AutoFrequencyEnabled
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- RsFph.Trace.Marker.Functions.ThirdOrderIntermodulation.TOISearch
- RsFph.Trace.Marker.Functions.ThirdOrderIntermodulation.QueryTOIRResult
- RsFph.Trace.Marker.Functions.MarkerTrackingEnabled
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- RsFph.SystemFph.WriteBytes()
- RsFph.SystemFph.WriteString()
- RsFph.SystemFph.IOTimeout
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- RsFph.FileFph.LoadDatasetFromFile()
- RsFph.PowerMeter.Configuration.Wavelength
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- RsFph.ReceiverMode.Configuration.FrequencyScale
- RsFph.ReceiverMode.Configuration.Marker.SynchronizeBargraphFrequencyToSpecifiedMarker
- RsFph.UtilityFunctions.BinaryDataOrder

\* Modified properties/methods:

- RsFph.Frequency.Offset - new range: <-100.0E+9;100.0E+9>. Default unit may be Hz or GHz
- RsFph.Amplitude.AmplitudeUnits - Range table updated
- RsFph.Acquisition.NumberOfSweeps - new range: <0;999>.
- RsFph.Acquisition.VerticalScale - Long form updated
- RsFph.SweepCoupling.ResolutionBandwidth - Default value updated.
- RsFph.SweepCoupling.SweepPoints - No longer read-only, range table added, enabled for FPH.
- RsFph.SweepCoupling.VideoBandwidth - Default value updated.
- RsFph.Trigger.Source - RSFPH\_VAL\_TRG\_IQP and RSFPH\_VAL\_TRG\_GET added to range table.
- RsFph.Trace.FetchY() - Added Window parameter.
- RsFph.Trace.Marker.Functions.PowerMeasurements.PowerStandard - Changing to Write Only
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRRelativeLimitCheck - Range table updated
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRAbsoluteLimitCheck - Range table updated
- 
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRTransmissionChannelAsReferenceChannel
- Range table updated

-  
RsFph.Trace.Marker.Functions.PowerMeasurements.AlternateChannel.ACLRAlternateRelativeLimitCheck - Range table updated

-  
RsFph.Trace.Marker.Functions.PowerMeasurements.AlternateChannel.ACLRAlternateAbsoluteLimitCheck - Range table updated

- RsFph.UtilityFunctions.IDQueryResp - Updating attribute's command, access, callback, flags.

\* Deleted properties/methods:

- RsFph.UtilityFunctions.StatusRegisterFormat

\* Modified Range Tables:

- rsfph\_rngDisplayBrightness - RSFPH\_ATTR\_DISP\_BRIGHTNESS  
Range changed to <0.00;1.00>

- TriggerSource - RSFPH\_ATTR\_TRIGGER\_SOURCE  
New items: IQPower, Gated

- TraceMode - RSFPH\_ATTR\_TRACE\_TYPE  
New items: Blank

- AmplitudeUnits - RSFPH\_ATTR\_AMPLITUDE\_UNITS, RSFPH\_ATTR\_TFAC\_UNIT  
New items: dBuVEMF, dBmVEMF, VEMF, dBuA, dB

- SystemAccessory.Z1 - RSFPH\_ATTR\_SYST\_ACCESSORY  
Help changed ("Type of measurement accessory is Z1", "type of measurement accessory is Z1")

- SystemAccessory.Z2 - RSFPH\_ATTR\_SYST\_ACCESSORY  
Help changed ("Type of measurement accessory is Z2", "type of measurement accessory is Z2")

- SystemAccessory.Z3 - RSFPH\_ATTR\_SYST\_ACCESSORY  
Help changed ("Type of measurement accessory is Z3", "type of measurement accessory is Z3")

- SystemAccessory.Z18 - RSFPH\_ATTR\_SYST\_ACCESSORY  
Help changed ("Type of measurement accessory is Z18", "type of measurement accessory is Z18")

- SystemAccessory - RSFPH\_ATTR\_SYST\_ACCESSORY  
New items: Z44, ZN\_Z103

- InstrumentMode - RSFPH\_ATTR\_INSTRUMENT\_MODE  
New items: VectorNetworkAnalyzer

- MathExpression.CurrentMemory - RSFPH\_ATTR\_SUBTRACT\_TRACES  
Command changed ("(memory - IMPLIED)", "(memory - IMPLIED)")

- rsfph\_rngDisplayReferencePosition - RSFPH\_ATTR\_DISP\_REF\_POSITION  
Range changed to <0;100>

- ACLRUnits - RSFPH\_ATTR\_ACLR\_RESULT\_UNIT  
New items: dBuA, dBuV\_m, dBuA\_m, V\_m, W\_m2

- ACLRReferenceChannelAutomaticSelection -  
RSFPH\_ATTR\_ACLR\_REFERENCE\_CHANNEL\_AUTOMATIC\_SELECTION  
New items: Manual

## Version 1.30.0 / 09 – 2017

\* IVI.NET shared components 1.4.0 used

\* New properties/methods:

- RsFph.Frequency.ChannelNumber

- RsFph.Frequency.ChannelTableDownlink

- RsFph.Frequency.ChannelTableUplink

- RsFph.Frequency.ChannelLinkDirection

- RsFph.Trace.Marker.Functions.PowerMeasurements.QueryResults()

- RsFph.Trace.Marker.Functions.PowerMeasurements.Select

- RsFph.Trace.Marker.Functions.PowerMeasurements.Disable

- RsFph.Trace.Marker.Functions.PowerMeasurements.PowerStandard

- RsFph.Trace.Marker.Functions.PowerMeasurements.PowerStandardCheck
- RsFph.Trace.Marker.Functions.PowerMeasurements.AdjustReferenceLevel()
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- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRAdjustReferenceLevel()
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRTransmissionChannelCount
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRReferenceChannelAutomaticSelection
- 
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRTransmissionChannelAsReferenceChannel
- RsFph.Trace.Marker.Functions.PowerMeasurements.ACLRTotalTXChannelPower
- 
- RsFph.Trace.Marker.Functions.PowerMeasurements.TransmissionChannel.ACLRTransmissionChannelSpacing
- 
- RsFph.Trace.Marker.Functions.PowerMeasurements.AlternateChannel.ACLRAlternateChannelBandwidth
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\* Modified properties/methods:

- RsFph.Trace.FetchY() - Added Window parameter.
- RsFph.SystemFph.InstrumentMode - Added new values to range table.
- RsFph.PowerMeter.Configuration.Unit - Added new values to range table.

\* Modified Range Tables:

- PowerSensorUnit - RSFPH\_ATTR\_PWM\_UNIT  
New items: dBuVm, dBuV, W\_M2, V\_M
- TraceMode.Freeze - RSFPH\_ATTR\_TRACE\_TYPE  
Help changed ("Freeze", "")
- TraceMode.Infinite - RSFPH\_ATTR\_TRACE\_TYPE  
Help changed ("Infinite", "")
- StatusRegister -  
New items: Sync
- StatusRegisterQuery.PTransition -  
Help changed ("P Transition", "PTransition")
- StatusRegisterQuery.PTransition -  
Description changed ("P Transition", "PTransition")
- StatusRegisterQuery.NTransition -  
Help changed ("N Transition", "NTransition")
- StatusRegisterQuery.NTransition -  
Description changed ("N Transition", "NTransition")
- InstrumentMode - RSFPH\_ATTR\_INSTRUMENT\_MODE  
New items: AnalogModulation, Receiver, CableAndAntennaAnalyzer, Maps,  
DigitalDemodulation

## Version 1.10.0 / 12 – 2016

\* Initial Release



# 3 Customer support

**Technical support – where and when you need it**

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

**Contact information**

Contact our customer support center at [www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support) or follow this QR code:

