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Time to Reinvent advance signal generation

# ARB Rider 2182 / 2184 Technical Datasheet



## 2–4 CHANNELS / 180 MHz ALL-IN-ONE: Function Generator, Arb Generator and Digital Pattern Generator

- 2 or 4 Analog Channels
- 600 MS/s (1.2 GS/s with x2 interpolation)
- 16-bit Vertical Resolution
- 180 MHz Bandwidth
- Up to 12V<sub>p-p</sub> into 50Ω load
- Up to 256Mpts Waveform Memory per Channel
- 8 Digital Channels in synchronous with analog Generation
- Simple Rider™ UI: designed for touch AWG/AFG user interfaces.

### **Key performance specifications**

- AFG Mode
  - 180 MHz Sine Waveforms
  - o 1.2 GS/s fixed

Website: www.auniontech.com

- o 16-bit vertical resolution
- o Amplitude up to  $12V_{p-p}$  into 50Ω load
- Improved DDS based technology
- AWG Mode
  - 600 MS/s Variable Clock (1.2 GS/s with x2 Interpolation)
  - 16-bit vertical resolution
  - 8-bit digital channels
  - Up to 256 Mpts Waveform Memory per Channel
  - 160 MHz Calculated Bandwidth
  - $\circ$  Amplitude up to  $12V_{p-p}$  into  $50\Omega$  load

#### Features & Benefits

- Sample rate can be programmed in from 1 S/s to 600 MS/s (1 S/s to 1.2 GS/s with 2x interpolation), with 16-bit vertical resolution, ensuring exceptional signal integrity
- Arbitrary waveform memory up to 256 Mpts for each analog channel
- Mixed Signal Generation 2 or 4 Analog channels with 8 synchronized Digital Channels for debugging and validating digital design
- Two operation modes Simple Rider AFG (DDS AFG mode) and True Arb (variable clock Arbitrary AWG mode)
- Digital outputs provide up to 600Mb/s data rate in LVDS format. LVDS to LVTTL adapter is available
- Advance sequencer with up to 16384 user defined waveforms provides the possibility of generating complex signal scenarios with the most efficient memory usage
- Windows based platform with 7" touch screen, front panel buttons and knob
- Compact form factor, convenient for bench top and fully fit with 3U – 10" rackmount standard
- LAN interfaces for remote control





## **Applications areas**

#### **Automotive**



Today's cars are including a lot of highly sophisticated electronic control unit with very sensitive electronic components.

The Arb Rider 2182 / 2184 combining 600 MS/s (1.2 GS/s with 2x interpolation) with 16 bit vertical resolution, represents an ideal tool for successfully addressing the new testing challenges in automotive.

- CAN, CAN-FD, LIN, Flexray, SENT emulation
- EMI debugging, troubleshooting and testing
- Electrical standards emulation up to 12Vp-p
- Power MOSFET circuitry in automotive electronics optimization

#### **IoT and Ind 4.0 perfect RF Modulator**



Arb and Function Riders will be the iconic instrument for this application. The possibility to emulate complex RF I/Q modulation for simulation and Test vs wireless devices or working on Internet of things of industry 4.0 applications. Each engineer may use the possibility to import waveform to emulate devices under test, impose distortion on waveform (such noise) to test the ability of devices to be compliant to the standards.

#### **Research Applications**

Research centers and Universities, are key users of Arb Rider generator's series.

Complex waveform and/or sophisticated Pulses emulation based on variable edges or multilevel could be perfectly created. The combination of fast edge generation, excellent dynamic range and easy to use user interface meet perfectly scientists and engineers working on large experiments such Accelerators, Tokamak or synchrotrons to emulate signals without creating specifics test boards.

- Emulation of detectors
- Emulation of signal sources adding noise
- Generation/playback of real-world signals
- Emulation of long PRBS sequences
- Modulating and driving laser diode

#### **Aerospace and Defense applications**

Electronic warfare signals driven by Radar or Sonar systems perfectly match with these generators. Large BW Riders can be used on digital modulation systems for Radio Applications or others I/Q signal modulation.

Pulses may be easily generated for applications such Pulse Electron Beam or X Ray Sources, Flash X-ray Radiography, Lighting pulse simulators, high Power Microwave modulators.

- Frequency response, intermodulation distortion and noise-figure measurements
- Phase Locked Loop (PLL) pull-in and hold range characterization
- Radar base-band signals emulation

### Semiconductors Test

Emulation of complex signals generated with inclusion of noise or distortions may became an excellent way to provide Compliance Components Test to help semiconductors engineers. The fast edges and pulse generation can be used to provide characterization in fast power devices.

- Clock and Sensor signals generation
- MOSFET gate drive amplitude signal emulation
- Power up sequences of IC using the low (0 Ω) output impedance feature





## **Simple Rider AFG: Function Generator Mode Interface**

Simple Rider AFG UI is designed for touch and it has been developed to put all the capabilities of modern Waveform Generators right at your fingertips.

All instrument controls and parameters are accessed through an intuitive UI that recalls the simplicity of Tablets and modern smart phones: touch features and gestures are available to engineers and scientists to create advanced waveforms or digital patterns in few touches.

- The swipe gesture gives easy access to the output waveform parameters
- A touch-friendly virtual numeric keypad has been designed to improve the user experience on entering the data
- Time saving shortcuts and intuitive icons simplify the instrument setup



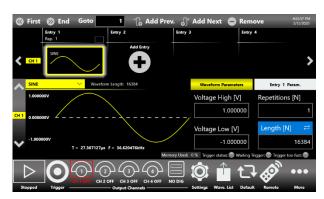
## Simple Rider TrueArb: AWG and DPG Mode Interface

In **Simple Rider True-Arb** interface, the users can define complex waveforms with up to 16,384 sequence entries of analog waveforms and digital patterns, define their execution flow by means of loops, jumps and conditional branches.

Digital output combined and synchronized with analog output signals represent an ideal tool to troubleshoot and validate digital design.

The waveform memory length of up to 256 Mpoints on each channel combined with up to 16,384 and up to 4,294,967,294 repetitions, make the Arb-Rider 2182 / 2184 the ideal generator for the most demanding technical applications.

Thanks to the intuitive and easy waveform sequencer user interface, the most complex waveform scenarios can be created with just few screen touches.





Arb Rider supports the standard Ethernet interface for remote control and easy customized instrument programming.





Document name AWG - 2182 / 2184 - Technical Specifications Last Date Update: 28/10/2021

All specifications are typical unless noted otherwise. The guaranteed performances are referred to a calibrated instrument that has been stored for a minimum of 2 hours within the operating temperature range of 5°C to 40°C and after a 45-minute warm up period. Within ±10°C after auto-calibration.

Some specifications on this document refer to the available options and accessories that can be found in the table at the end of this document.

General Specifications				
	AWG-2182 AWG-2184			
Number of Channels				
Analog out	2 4			
Digital out	0/8 – optional 0/8 – optional			
Marker out	1	1		
Operating Mode	AFG Mode True Arb Mode			
Amplitude Range $(50\Omega \text{ into } 50\Omega)^1$	0 to 6Vp-p (12Vp-p optional)			
Accuracy (1kHz sine wave, 0V offset, >5mV <sub>p-p</sub> amplitude, 50Ω load) (guaranteed)	±(1% of setting [Vp-p] + 5mV)			
Resolution	<0.5mVp-p or 5 digits			
Output impedance	Single-ended: $50\Omega$ , Low Impedance: $0\Omega$			
DC				
Amplitude range $(50\Omega \text{ into } 50\Omega)^1$	-3V to 3V (-6V to 6V optional)			
Amplitude accuracy (guaranteed)	±(1% of  setting  + 10mV)			
Output attenuator	0dB or 20dB selectable			
AFG Mode Specifications				
Output Channels	Output Channels			
Connectors	BNC on front panel			
Output type	Single-ended			

<sup>&</sup>lt;sup>1</sup> Amplitude doubles into HiZ load





Output Impedance	$50\Omega$ or $0\Omega$ (low impedance) programmable
General Specifications	
Operating mode	DDS mode
Standard Waveforms	Sine, Square, Pulse, Ramp, more (Noise, DC, Sin(x)/x,
	Gaussian, Lorentz, Exponential Rise, Exponential Decay,
	Haversine
Run Modes	Continuous, modulation, sweep, burst
Arbitrary Waveforms	Vertical resolution: 16-bit
	Waveform length: 16,384 points
Internal Trigger Timer	
Range	13.4ns to 100s
Resolution	104ps
Accuracy	±(0.1% setting + 5ps)
	AWG-2182/2184
Sine Waves	
Frequency Range (50 $\Omega$ into 50 $\Omega$ )	1 μHz to ≤ 150 MHz: 6 V <sub>p-p</sub>
	>150 MHz to ≤ 180 MHz: 5 V <sub>p-p</sub>
	HV option:
	1 μHz to ≤ 50 MHz: 12 V <sub>p-p</sub>
	>50 MHz to ≤ 60 MHz: 10 V <sub>p-p</sub>
	>60 MHz to ≤ 100 MHz: 8 V <sub>p-p</sub>
	>100 MHz to ≤ 150 MHz: 6 V <sub>p-p</sub>
	>150 MHz to ≤ 180 MHz: 5 V <sub>p-p</sub>
Max Frequency Value	180 MHz
Flatness (1Vp-p, relative to 1 kHz)	DC to 180 MHz: ±0.5dB





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Harmonic Distortion (1Vp-p)	1 μHz to ≤ 20 kHz: <-75dBc		
	>20 kHz to ≤ 1 MHz: <-70dBc		
	>1 MHz to ≤ 10 MHz: <-65dBc		
	>10 MHz to ≤ 50 MHz: <-55dBc		
	>50 MHz to ≤ 120 MHz: <-45dBc		
	>120 MHz to ≤ 180 MHz: <-40dBc		
Total Harmonic Distortion (1Vp-p)	10 Hz to 20 kHz: <0.04%		
Spurious (1Vp-p)	1 μHz to ≤ 10 MHz: <-80dBc		
(excluding fsa-fout, fsa-2*fout)	>10 MHz to ≤ 180 MHz:		
	<-80dBc + 6dBc/octave		
Phase Noise (1Vp-p, 10kHz offset)	10 MHz: < -127dBc/Hz typ		
1 11000 110100 (11 p p; 101112 01100t)	100 MHz: < -115dBc/Hz typ		
Square Waves			
Frequency Range	1 μHz to 80 MHz: 6V <sub>p-p</sub>		
	HV option:		
	1 µHz to ≤ 30 MHz: 12V <sub>p-p</sub>		
	>30 MHz to ≤ 50 MHz: 11V <sub>p-p</sub>		
	>50 MHz to ≤ 70 MHz: 10V <sub>p-p</sub>		
	>70 MHz to ≤ 80 MHz: 9V <sub>p-p</sub>		
	770 WIT 12 to ≤ 80 WIT 12. 9 Vp-p		
Rise/fall time	4ns		
Overshoot (1V <sub>p-p</sub> )	<1%		
Jitter (rms)	<2ps		





Pulse Waves		
Frequency Range	1 μHz to 80 MHz: 6V <sub>p-p</sub>	
	HV option:	
	1 μHz to ≤ 3 MHz: 12V <sub>p-p</sub>	
	>3 MHz to ≤ 10 MHz: 11V <sub>p-p</sub>	
	>10 MHz to ≤ 70 MHz: 10V <sub>p-p</sub>	
	>70 MHz to ≤80 MHz: 9V <sub>p-p</sub>	
Pulse width	5ns to (Period – 5ns)	
Pulse width Resolution	20ps or 15 digits	
Leading/trailing edge transition time	4ns to 1000s	
Transition time Resolution	2ps or 15 digits	
Pulse duty	0% to 100% 14 digits (limitations of pulse width apply)	
Overshoot (1V <sub>p-p</sub> )	<1%	
Jitter (rms, with rise and fall time ≥4ns)	<2ps	
Double Pulse Waves		
Frequency Range	1 μHz to ≤ 3 MHz: 12V <sub>p-p</sub>	
	>3 MHz to ≤ 50 MHz: 6V <sub>p-p</sub>	
	where $V_{p-p} =  V_{p-p}1  +  V_{p-p}2 $	
	HV option:	
	1 µHz to ≤ 3 MHz: 24V <sub>p-p</sub>	
	>3 MHz to ≤ 10 MHz: 11V <sub>p-p</sub>	
	>10 MHz to ≤ 50 MHz: 10V <sub>p-p</sub>	
	where $V_{p-p} =  V_{p-p}1  +  V_{p-p}2 $	
Other Pulse Parameters	Same as Pulse Waves	
Ramp Waves		
Frequency Range	1 μHz to 5 MHz	
Linearity (<10 kHz, 1V <sub>p-p</sub> , 100%)	≤0.1%	
Symmetry	0% to 100%	
Other Waves		
Frequency Range		
	1	





Exponential Rise, Exponential Decay	1 μHz to 5 MHz
Sin(x)/x, Gaussian, Lorentz, Haversine	1 μHz to 10 MHz
Additive Noise	
Bandwidth (-3dB)	>200 MHz
Level	0V to 6V –  carrier max value [V <sub>pk</sub> ]
Resolution	1mV
Arbitrary	
Number of Samples	2 to 16,384
Frequency range	1 μHz to ≤ 80 MHz
Analog Bandwidth (-3 dB)	87.5 MHz
Rise/fall time	4ns
Jitter (rms)	<2ps
Frequency Resolution	
Sine, Square, Pulse, Arbitrary, Sin(x)/s	1 μHz or 15 digits
Gaussian, Lorentz, Exponential Rise,	1 μHz or 14 digits
Exponential Decay, Haversine	
Frequency Accuracy	
Non-ARB	±2.0 x 10 <sup>-6</sup> of setting
ARB	±2.0 x 10 <sup>-6</sup> of setting ±1 μHz
Modulations	
Amplitude Modulation (AM)	
Carrier waveforms	Standard waveforms (except Pulse, DC and Noise), ARB
Modulation source	Internal
Internal modulating waveforms	Sine, Square, Ramp, Noise, ARB
Modulating frequency	500 μHz to 48 MHz
Depth	0.00% to 120.00%
Frequency Modulation (FM)	
Carrier waveforms	Standard waveforms (except Pulse, DC and Noise), ARB
Modulation source	Internal
Internal modulating waveforms	Sine, Square, Ramp, Noise, ARB
Modulating frequency	500 μHz to 48 MHz
Peak deviation	DC to 180 MHz





Phase Modulation (PM)			
Carrier waveforms	Standard waveforms (except Pulse, DC and Noise), ARB		
Modulation source	Internal		
Internal modulating waveforms	Sine, Square, Ramp, Noise, ARB		
Modulating frequency	500 μHz to 48 MHz		
Phase deviation range	0° to 360°		
Frequency Shift Keying (FSK)			
Carrier waveforms	Standard waveforms (except Pulse, DC and Noise), ARB		
Modulation source	Internal		
Internal modulating waveforms	Square		
Key rate	500 μHz to 48 MHz		
Hop frequency	1 µHz to 180 MHz		
Number of keys	2		
Phase Shift Keying (PSK)			
Carrier waveforms	Standard waveforms (except Pulse, DC and Noise), ARB		
Modulation source	Internal		
Internal modulating waveforms	Square		
Key rate	500 μHz to 48 MHz		
Hop phase	0° to +360°		
Number of keys	2		
Pulse Width Modulation (PWM)			
Carrier waveforms	Pulse		
Modulation source	Internal		
Internal modulating waveforms	Sine, Square, Ramp, Noise, ARB		
Modulating frequency	500 μHz to 48 MHz		
Deviation range	0% to 50% of pulse period		





Sweep		
Туре	Linear, Logarithmic, Staircase, and user defined	
Waveforms	Standard waveforms (except Pulse, DC and Noise), ARB	
Sweep time	40ns to 2000s	
Hold/return times	0 to (2000s – 40ns)	
Sweep/hold/return time resolution	20ns or 12digits	
Total sweep time accuracy	≤0.4%	
Start/stop frequency range	Sine: 1 µHz to 180 MHz	
	Square: 1 µHz to 80 MHz	
Trigger source	Internal / External / Manual	
Burst		
Waveforms	Standard waveforms (except DC and Noise), ARB	
Туре	Triggered or Gated	
Burst count	1 to 4,294,967,295 cycles or Infinite	
True Arb mode specifications		
Output Channels		
Connectors	BNC on front panel	
Output type	Single-ended DC coupled	
Output Impedance	$50\Omega$ or $0\Omega$ (low impedance)	
General specifications		
Operating Mode	Variable clock (True Arbitrary)	
Operating Mode	, , , , , , , , , , , , , , , , , , ,	
	Continuous, Triggered Continuous,	
Operating Mode	, , , , , , , , , , , , , , , , , , ,	
Operating Mode  Run Modes	Continuous, Triggered Continuous, Single/Burst, Stepped, Advanced	
Operating Mode	Continuous, Triggered Continuous,	
Operating Mode  Run Modes	Continuous, Triggered Continuous, Single/Burst, Stepped, Advanced	
Operating Mode  Run Modes  Vertical Resolution	Continuous, Triggered Continuous, Single/Burst, Stepped, Advanced  16 bit	
Operating Mode  Run Modes  Vertical Resolution	Continuous, Triggered Continuous, Single/Burst, Stepped, Advanced  16 bit  16 to 2M samples per channel	





	8 if entry length is ≥16 and ≤384 samples		
Sequence Length	1 to 16,384		
Sequence Repeat Counter	1 to 4,294,967,295 or infinite		
Timer	22.52		
Range	23.52ns to 7s		
Resolution	±1 sampling clock period		
Analog Channel to Channels skew			
Range	0 to 6.59 us (depending on internal sampling rate)		
Resolution	Channel 1/2 to Channel 3/4: ≤ 5ps,		
	Channel 1/3 to Channel 2/4: 1 DAC sampling period		
Accuracy	±(1% of setting + 20ps)		
Initial skew	<200 ps		
Calculated bandwidth (0.35 / rise or fall time) <sup>2</sup>	≥160 MHz		
<b>Harmonic distortion</b> (Sine wave 32 pts, 1V <sub>p-p</sub> )	< -62dBc (@ 600MS/s, 18.75 MHz)		
<b>Spurious</b> (Sine wave 32 pts, 1V <sub>p-p</sub> )	< -80dBc (@ 600MS/s, 18.75 MHz)		
SFDR (Sine wave 32 pts, 1V <sub>p-p</sub> , including Harmonics)	< -62dBc (@ 600MS/s, 18.75 MHz)		
Rise/fall time (1V <sub>p-p</sub> single-ended 10% to 90%) <sup>2</sup>	≤2.2ns		
Overshoot (1V <sub>p-p</sub> single-ended) <sup>2</sup>	< 2%		
Timing and Clock			
Sampling Rate			
Range	1 S/s to 600 MS/s (1 S/s to 1.2 GS/s with x2 interpolation)		
Resolution	16 Hz		
Accuracy	±2.0ppm		
Random jitter on clock pattern (rms)	<2ps		
Digital outputs (Optional)	·		
Output Channels			

<sup>&</sup>lt;sup>2</sup> 2x interpolation OFF





Connectors	Mini-SAS HD connector on rear panel		
	(Non-standard pin-out)		
Number of connectors	1		
Number of outputs	8 bits		
Output impedance	100Ω differential		
Output type	LVDS		
Rise/fall time (10% to 90%)	<1ns		
Jitter (rms)	20ps		
Maximum update rate	600 Mbps		
Memory depth	2MSamples per digital channel		
	(up to 256MSamples optional)		
8 bit LVDS to LVTTL Converter Probe (Optional AT-DTTL8)			
Output connector	20 position 2.54 mm 2 Row IDC Header		
Output type	LVTTL		
Output impedance	50Ω nominal		
Output voltage	0.8V to 3.8V programmable		
Maximum Update Rate	125Mbps@0.8V and 400Mbps@3.6V		
Dimensions	W 52mm – H 22mm – D 76mm		
Input Connector	Proprietary standard		
Cable Length	1 meter		
Cable Type	Proprietary standard		
Proprietary Mini SAS HD to SMA cable (Optional)			





Output connector	SN	40		
Output connector	SN	10		
		SMA		
Output type	LV	LVDS		
Number of SMA	16 (8	16 (8 bits)		
Cable type	Proprietar	y standard		
Cable Length	1 meter			
Auxiliary inpu	t and output characteristics	<b>3</b>		
	AWG-2182	AWG-2184		
Marker Output		L		
Connector type	BNC on front panel	BNC on rear panel		
Number of connectors		1		
Output impedance	50	Ω		
Output level (into 50 Ω)				
Amplitude	1V to 2.5V			
Resolution	10mV			
Accuracy	±(2% setting + 10mV)			
Rise/fall time (10% to 90%, 2.5V <sub>p-p</sub> )	<700ps			
Jitter (rms)	20	)ps		
Marker out to analog channel skew				
Range	True Arb Mo	ode: 0 to 3µs		
	AFG Mode: 0 to 14s	in Continuous Mode		
	0 to 3µs in Tr	iggered Mode		
Resolution	True Arb M	lode: 78ps,		
	AFG Mo	de: 39ps		
Accuracy	±(1% of setti	ng + 140 ps)		
Initial skew	< 1 ns			
Trigger/Gate input				
Connector	BNC on front panel	BNC on rear panel		
Input impedance	50Ω / 1kΩ pr	rogrammable		
Slope/Polarity	Positive or ne	Positive or negative or both		





Input damage level	<-15V or >+15V	
Threshold control level	-10V to 10V	
Resolution	10mv	
Threshold control accuracy	±(10% of  setting  + 0.2V)	
Input voltage swing	0.5V <sub>p-p</sub> minimum	
Minimum pulse width (1V <sub>p-p</sub> )	3ns	
Initial trigger/gate delay to Analog Output	AFG mode: <400 ns (<460 ns in triggered sweep mode)	
	True Arb mode: <131*DAC sampling period + 22.5 ns	
	(<143*DAC sampling period+22.5 ns with 2x interpolation)	
Trigger In to output jitter	AFG mode: <45ps	
	True Arb mode: 0.29*DAC sampling period	
Maximum Frequency	AFG mode: 65 MTps on Rising/Falling Edge,	
	80 MTps on Both Edges	
	True Arb mode: 42.5 MTps	
	where MTps = Mega Transitions per second	
Reference clock input		
Connector type	SMA on rear panel	
Input impedance	50Ω, AC coupled	
Input voltage range	-4 dBm to 11dBm sine or square wave	
	(rise time T <sub>10-90</sub> <1ns and duty cycle from 40% to 60%)	
Damage level	+14dBm	
Frequency range	5 MHz to 100 MHz	
Reference clock output		
Connector type	SMA on rear panel	
Output impedance	50Ω, AC coupled	
Frequency	10 MHz	
Accuracy	±2.0x10 <sup>-6</sup>	
Aging	±1.0x10 <sup>-6</sup> /year	
Amplitude	1.65V	
Jitter (rms)	<20ps	
	Power	
Source Voltage and Frequency	100 to 240VAC ±10% @ 45 Hz to 66 Hz	





Max. power consumption	otion		100W	
Environmental characteristics				
Temperature (operating)		+5°C to +40°C (+41°F to 104°F)		
Temperature (non-opera	ting)	-20°C to +60°C (-4°F to 140°F)		
Humidity (operating)		5% to 80% relative humidity with a maximum wet bulb temperature of 29°C at or below +40°C, (upper limit de–rates to 20.6% relative humidity at +40°C). Non-condensing.		
Humidity (non-operating)		5% to 95% relative humidity with a maximum wet bulb temperature of 40°C at or below +60°C, upper limit de–rates to 29.8% relative humidity at +60°C. Non-condensing.		
Altitude (operating)		3,000 meters (9,842 feet) maximum at or below 25°C		
Altitude (non-operating)		12,000 m	neters (39,370 feet) maximum	
EMC and safety				
Compliance	CE compliant		CE compliant	
Safety		EN61010-1		
Main Standards	EN		1326-1:2013 – Electrical equipment for	
		measurement, control and laboratory use – EMC		
		requirements – Part 1: General requirements		
Immunity	EN 61326-1:2013		EN 61326-1:2013	
	System	specification	s	
	AWG-218	32	AWG-2184	
Display	7", 1024x600, capacitive touch LCD			
Operative System	Windows 10			
External Dimensions	W 362 mm – H 143 mm – D 258 mm			
	(3U 10" rackmount)			
Weight	6.25 kg			
Front panel connectors	CH1, CH2 OUTPUT (BNC)		CH1, CH2 OUTPUT (BNC)	
	MARKER OUT (BNC)		CH3, CH4 OUTPUT (BNC)	
	TRIGGER IN (BNC)			
Rear panel connectors			REF CLK IN (SMA)	





	REF CLK IN (SMA)	REF CLK OUT (SMA)
	REF CLK OUT (SMA)	MARKER OUT (BNC)
	External Monitor ports	TRIGGER IN (BNC)
	DIGITAL POD A[70]	External Monitor ports
	1 USB 2.0 ports or more	DIGITAL POD A[70]
	Ethernet port (10/100/1000BaseT	1 USB 2.0 ports or more
	Ethernet, RJ45 port)	Ethernet port (10/100/1000BaseT Ethernet,
	2 PS/2 keyboard and mouse ports	RJ45 port)
		2 PS/2 keyboard and mouse ports
Hard Disk	240 GB SSD or better	
Processor	Intel® Celeron J1900, 2 GHz (or better)	
Processor Memory	4 GB or better	





## Table of Available Models

Item	Description
AWG-2100-DIG8	8 channel Digital license (Mini SAS cable included)
AWG2182-2M	2ch 600Ms/s AWG 2Ms memory - 180MHz AFG
AWG2182-64M	2ch 600Ms/s AWG 64Ms memory - 180MHz AFG
AWG2182-256M	2ch 600Ms/s AWG 256Ms memory - 180MHz AFG
AWG2184-2M	4ch 600Ms/s AWG 2Ms memory - 180MHz AFG
AWG2184-64M	4ch 600Ms/s AWG 64Ms memory - 180MHz AFG
AWG2184-256M	4ch 600Ms/s AWG 256Ms memory - 180MHz AFG





# Table of Available Options and Accessories

Item	Description	
<b>O</b> ptions		
AWG-2182-HV	High voltage output (12Vpp on 50ohm) for AWG2182	
AWG-2184-HV	High voltage output (12Vpp on 50ohm) for AWG2184	
AWG-2100-DIG8	8 channel Dig license (Mini SAS cable included) for AWG2000	
AWG2002-WAR	3 years warranty extension for AWG2182	
AWG2004-WAR	3 years warranty extension for AWG2184	
Accessories		
AT-DTTL8	LVDS to LVTTL digital adapter probe	
AT-LVDS-SMA8	LVDS to SMA digital adapter cable	
RIDER-C-RACK	Rackmount kit for Rider C series (AWG2000)	
GPIB / USB-TMC	GPIB and USBTMC Ports for Remote Control	
SSD-250	Additional 250GB Solid State Disk for RIDER series	
SSD-500	Additional 500GB Solid State Disk for RIDER series	
SSD-1000	Additional 1TB Solid State Disk for RIDER series	

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