

Key Features

- Up to 164 MHz baseband analysis at 80 dB SFDR or spurious-free dynamic range
- Up to 130 ms record length with a frequency range of 2 GHz
- Fast data transfer rate over PCI bus

89600 Series vector signal analyzer software

Description	Model No.
Modular multichannel data acquisition system	U1056A
10-bit cPCI digitizers, Acqiris DC282, DC252, DC222	U1065A
12-bit cPCI digitizers, Acqiris DC440, DC438	U1066A

Application

The VSA software provides rapid data transfers from the digitizers to the host, reducing measurement times and maximizing user productivity. It also provides a host of development tools to assist system engineers in troubleshooting and evaluating broadband signals.

For applications requiring a wide frequency range with 12-bit vertical resolution, the dual channel U1066A digitizer family offers an outstanding signal-to-noise ratio, a high number of effective bits and up to 8 MS of memory. The digitizers are ideal for applications that require very high dynamic range broadband analysis, such as LIDAR and I/Ω demodulation.

The 10-bit digitizers U1065A offer a bandwidth of up to 2 GHz and a very large memory of up to 1 GS. The large bandwidth combined with expansive memory make these digitizers ideal for applications in radar, UWB communication and multi-carrier power amplifier (MCPA) evaluation.



89601A

Vector signal analysis using Agilent Acqiris broadband 10-bit digitizers U1065A and 12-bit digitizers U1066A

Agilent Acqiris digitizers supported by 89601A VSA software

Model	No of channels	Resolution	Max sample rate	Frequency range	SFDR	Record 512k	ing leng 1M	ht for po 4M	ssible m 8M	nemory 64M	128M	512M	1G
U1066A-001 (DC440)	1	12	420M	dc - 164 MHz	80 dB	_	_	10 ms	20 ms	_	_	_	_
U1066A-001 (DC440)	2	12	420M	dc - 164 MHz	80 dB	_	_	10 ms	20 ms	_	_	_	_
U1066A-002 (DC438)	1	12	200M	dc - 78.125 MHz	78 dB	_	_	20 ms	40 ms	_	_	-	_
U1066A-002 (DC438)	2	12	200M	dc - 78.125 MHz	78 dB	-	_	20 ms	40 ms	-	-	-	-
U1065A-001 (DC222)	1	10	8G	dc - 2 GHz	55 dB	_	130 µs	_	_	_	16 ms	_	130 ms
U1065A-002 (DC252)	1	10	8G	dc - 2 GHz	55 dB	-	130 µs	-	_	-	16 ms	-	130 ms
U1065A-002 (DC252)	2	10	4G	dc - 1.5625 GHz	55 dB	130 µs	_	_	_	16 ms	_	130 ms	_
U1065A-004 (DC282)	1	10	8G	dc - 2 GHz	55 dB	-	130 µs	_	_	-	16 ms	-	130 ms
U1065A-004 (DC282)	2	10	4G	dc - 1.5625 GHz	55 dB	130 µs	-	-	-	16 ms	_	130 ms	-

Maximum recording lengths at maximum span for each digitizer model with memory

Visit www.agilent.com/find/vsa-software-on-acqiris-digitizers and www.agilent.com/find/acqiris for more information.

