VB8000 Specifications

IQ Signal Output

Output channel	2 channels (deferential output) 4 channels (deferential output) 6 channels (single-end output) 8 channels (single-end output)
Record memory	16Mpoints/channel 64Mpoints/channel
D/A resolution	14 bits
Impedance	50Ω
Output range	[50Ω load] −1.5 to +2.5V (AC peak + DC offset) 3.0Vp-p AC [Open load] −3.0 to +5.0V (AC peak + DC offset) 6.0Vp-p AC
Attenuator accuracy	±0.2dB
Offset accuracy of DC voltage	[50Ω load]> ± (Establishment value x 1%)±2mV [Open load] ± (Establishment value x 1%)±4mV
Skew	
channel spacing	<±2.0ns (smoothing filter: Through)
IQ spacing	<±2.0ns (smoothing filter: Through)
Smoothing Filter (-3dB)	Through(90MHz), 30MHz, 6MHz

Clock

Frequency range	128kHz to 100MHz
Resolution	1Hz
Accuracy	±1ppm

Waveform Memory

Memory length	1 to 64Mpoints(−64×) 1 to 16Mpoints(−16×)
Header data length	1 to (Memory-Body data-256)
Body data length	1 to Memory

Output Control

Delay	0 to 262143 clock
Start trigger source	Internal / External
Sequence	Body continuous after one Header data, Body continuous only

Output

Output Attenuator	+6.0 to −20.0dB (resolution: 0.1dB)
Output phase	−180deg to+180deg (resolution: 0.5deg)
Amplitude error	−30% to +30% (resolution: 0.5%)
Phase error	−30deg to +30deg (resolution: 0.5deg)
DC voltage offset (Common-mode)	−500mV to +1500mV (resolution: 1mV)
DC voltage offset (Deferential)	−100mV to +100mV (resolution: 0.2mV)

Digital Output

Output data	Each channel independence. 14 bits data Deferential Clock
Output level	C-MOS level +3.3V
Output connector	20 pins, 2.54mm pitch, 2 line pin header with each channel

Hard Disk Drive

Capacity	10GB

Floppy Disk Drive

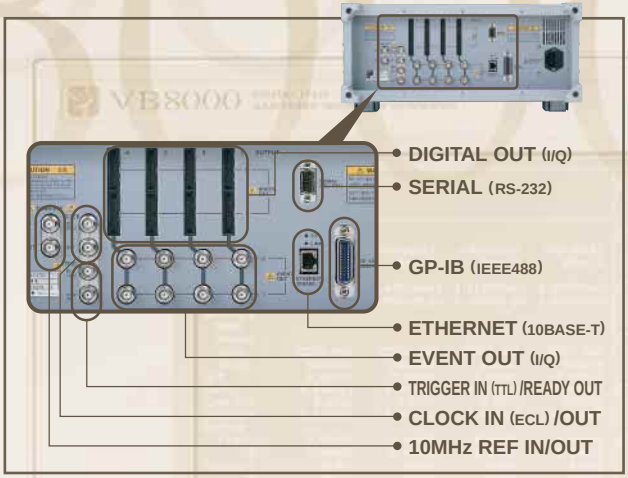
Size	3.5
Format	640kB / 720kB / 1.2MB / 1.44MB

Interfaces

Ethernet(10BASE-T)	IEEE802.3
Serial(RS-232)	EIA RS-232
GP-IB	IEEE St'd488-1978(JIS C1901-1987)

General

Operation temperature range	5 to 40˚C
Operation humidity range	20 to 80%RH
Power supply voltage	100 to 120VAC, 220 to 240VAC
Power supply frequency	48 to 63Hz
Power requirement	250VA
External dimensions	426(W)×176(H)×450(D)mm
Weight	Approximately 16kg (-648)



VB8000 model and suffix code

Model	Suffix Code		Description
703150			VB8000 Arbitrary Wave form Generator
Output channels Memory size	-162		2-channel model, 16Mpoints Memory, Differential output
	-642		2-channel model, 64Mpoints Memory, Differential output
	-164		4-channel model, 16Mpoints Memory, Differential output
	-644		4-channel model, 64Mpoints Memory, Differential output
	-166		6-channel model, 16Mpoints Memory, Single-end output
	-646		6-channel model, 64Mpoints Memory, Single-end output
	-168		8-channel model, 16Mpoints Memory, Single-end output
	-648		8-channel model, 64Mpoints Memory, Single-end output
Power cable		-D	UL,OS A Standard
		-F	VDE Standard
		-S	BS Standard
		-R	SAA Standard

Wireless Utility Software	Model	Modulation	Functions
Digital Modulation Signal Generation Software	703081	BPSK, QPSK, OQPSK, π/4QPSK 16QAM, 64QAM, 128QAM, 256QAM	Single Carrier
Digital Modulation Signal Analysis Software	703080	BPSK, QPSK, π/4QPSK	EMV Analyzing
OFDM Generation Utility Software	703082	IEEE802.11a OFDM	Modulation Waveform Generation
OFDM Generation Analysis Software	703083	IEEE802.11a OFDM	BER/EVM Analyzing
CCK Generation Utility Software	703084	IEEE802.11b CCK	Modulation Waveform Generation
CCK Generation Analysis Software	703085	IEEE802.11b CCK	BER/FER Analyzing
W-CDMA Multiplex Data Generation Utility (for 3GPP)	703183	IMT-2000/3GPP	max. 128 Multiplex Generation
File Conversion Software	–		ASCII –> VB/VG Format(CSV)