



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
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Specifications of Arbitrary Waveform Generator
RFx No. 6100000825 (Reference No. 1000016197)

Sr No.	Parameters	Specifications
1	Analog Bandwidth	1.25 GHz on all Channels or higher
2	No. of Channels	8 Channels in Single Box. All Channels should be Phase & Time Synchronous.
3	Output type	Single ended or differential, 50Ω DC coupled
4	DAC Resolution	16 Bits or higher
5	DC Coupled Amplitude	50 mVpp to 750 mVpp or larger(single-ended)
6	Sample Rate	2.5 GSa/s on all Channels or better. Operation with both internal and external clock.
7	Internal sampling clock frequency resolution	7 digits or better
8	Output Phase noise (10 kHz offset)	100 MHz carrier: < -130 dBc/Hz
9	Rise/Fall time	(20 % to 80%) ≤ 130 ps
10	Memory Points	2 GSa on each channel
11	Run modes	Continuous, Triggered, Triggered Continuous & Sequence
12	Trigger delay to output	Less than 375 ns
13	Waveform Granularity	32 points
14	Channel to Channel Skew	±25 ps or smaller
15	Skew setting range/resolution	5ns /5ps or better
16	Markers per Channel	2 Markers or more
17	Sequencing option	32000 sequence steps or better
18	Sequencer instructions	Play waveform, play waveform segment, wait for trigger
19	Standard Waveform	Sine, Square, Triangle, Ramp, Noise & DC
20	External Reference IN/OUT	10 MHz with SMA connector
21	External Trigger Input	2 Trigger Inputs
22	Control Software	Appropriate control software for programming and operating the instrument via a PC. Support for Labview and Python APIs as well.
23	Interfaces & Operating System	USB, LAN, Windows 10, GPIB
24	Mains Input Voltage	230V AC, 50Hz nominal
25	Warranty and Technical Support	3 Years. Technical support should be available within India.