

A question of Perception

To further improve functionality, HBM Genesis HighSpeed includes the modular Perception software that precisely matches the hardware and the application to form a true electronic chart recorder. Perception, which currently is sold for more than a thousand licensees, is a customized solution that enables measured data to be exported in 23 different formats, either manually for selected areas or automatically for a complete measurement series.



Alternatively users can prepare a test report using standard Microsoft Office software since all displays, indications, cursor tables, and calculated results can be transferred to Word or Excel. For more complex layout features, a complete report can be generated by Perception and the report can then be saved with the data. Perception also enhances dynamic report preparation so that, for example, a test or specimen number can be entered automatically in a header or footer and updated if the test is repeated.



Alternative storage

There are a number of alternatives to traditional paper output with the HBM Genesis HighSpeed GEN DAQ products. For extremely fast signals, the complete measurement of up to 32 GBytes can be saved in RAM either locally on a hard disk or directly on the server. For example, 64 channels with 1 MS/s per channel recording for one minute can be stored in RAM.

There are also two options for storage on a hard disk using reduced sampling rates.

Data sets of any size can be saved with up to a 50 MB/s sampling rate (24 channels with 1 MS/s each) on the internal hard disk in a PC.

Alternatively an external SCSI hard disk can be connected to the GEN series base unit for safety-related applications. With a 20 MB/s aggregate rate, this configuration provides reliable acquisition independent of any Windows or PC problems, as it is completely controlled by the GEN series real-time operating system.