

# Libera Spectra

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Libera Spectra is a high-performance digital pulse processor (DPP) intended for spectroscopy experiments. Besides the good resolution that is standard for this kind of instruments, the main benefits are high count rate processing, scalability and the possibility to add custom algorithms and applications. On the SW side this was achieved with the Libera BASE SW platform, while on the HW side MTCA standard was chosen.

Combining up to 10 Libera Spectra instruments in one MTCA crate, the user gets a 40 input channel system. Transferring the huge amount of processed data from the instrument to the AMC CPU in the crate and then over Gb ethernet to the control system is a challenging task.

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