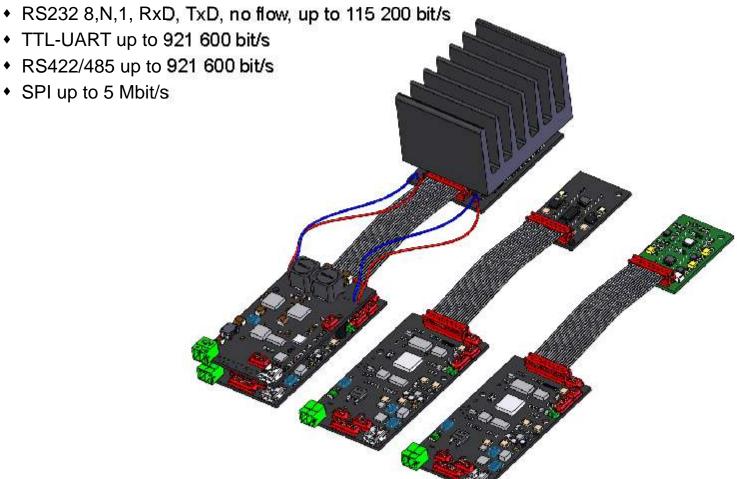
## **Spectrometer Electronics**

The read out electronics **VersaPic** is designed to proceed data of line array detectors with high precision through various interfaces. Its processor board is evolved for reading data from different sensor types through the JETI Port interface. The electronics is really versatile due to this internal interface.

The powerful 16bit RISC micro controller executes the timing control for different line arrays, precalculations of spectra and communication via several standard interfaces. A thermoelectric cooler can optionally be populated as a piggy pack board. It regulates the sensor temperature of TEC equipped line arrays from different vendors very fast and accurate.

**VersaPic** can be equipped with following selectable interfaces:

USB 2.0 Full speed (12 Mbit/s)





Power supply
Operation current
ADC Resolution
Sampling speed
Sampling mode

Analog inputs Input full scale range Gain Offset USB powered or 9 ... 12 V DC externally up to 250 mA

16 bit, 2 bit RMS (without oversampling), 4 bit INL, no missing code max. 5 MS/s

Sample and Hold: 1, 4 - fold prog. oversampling or Correlated Double Sampling

2 (odd and even), programmable for positive or negative video signals 2 V or 4 V, programmable

1 ... 5 programmable in 64 steps

External compensation or programable up to +/- 300 mV

