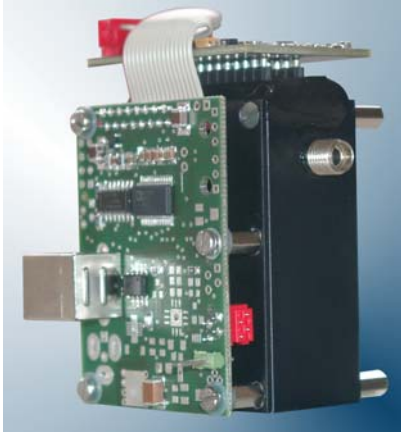


OEM Spectrometer Broadband Spectra to Digital Converter 250 - 1000 nm

The **JETI broadband spectraprocessor SDC-BB** combines an **integrated flat field spectrograph** with a **powerful processing electronics**.



Applications

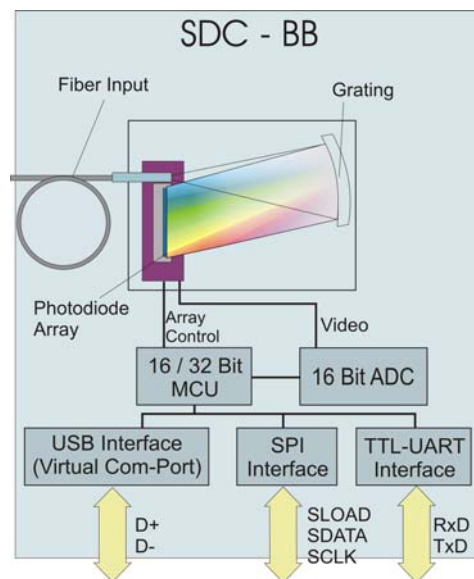
- mobile spectrometric measurement equipment
- colorimeter
- spectroradiometer
- analytical instrumentation
- multichannel spectrometric systems

Interfaces

- USB
- SPI
- TTL UART

Description

- internal storage of wavelength pixel relation
- storage of reference data
- preprocessing of data, dark signal correction, absolute calibration
- internal calculations like averaging, interpolation, transmission, reflexion, absorption, color-coordinates
- SCPI compatible control syntax



block diagram

Specifications

Applications	Single and multichannel spectral measurement
Optical parameters	
Spectral range	250 nm ... 1000 nm
Optical bandwidth	4.5 nm FWHM (50µm slit)
Optical input	SMA connector
Wavelength accuracy	± 0.5 nm (HgAr linesource)
Wavelength reproducibility	± 0.1 nm (HgAr linesource)
Stray light	< 0.2% (ASTM E387, GG495, 4 mm, λ = 420 nm/ 600 nm)
Spectrometer	grating: holographic, flat field detector: photodiode array
Electronical parameters	
Digital resolution	14, 15 or 16 bit
Integration time	4 ... 65353 ms
Interfaces	USB SPI TTL UART
Power supply	9V DC, 100mA (if USB is not used)
Mechanical parameters	
Dimensions	approx. 60 x 40 x 35
Weight	approx. 150 g

Advantages

- easy to implement in customer specific designs
- processing of spectral calculations
- easy multichannel arrangement

JETI Technische Instrumente GmbH
Tatzendpromenade 2
D-07745 Jena

 **ファイブラボ株式会社**
〒332-0034
埼玉県川口市並木4-13-3
TEL:048-229-8451 FAX:048-229-8452