

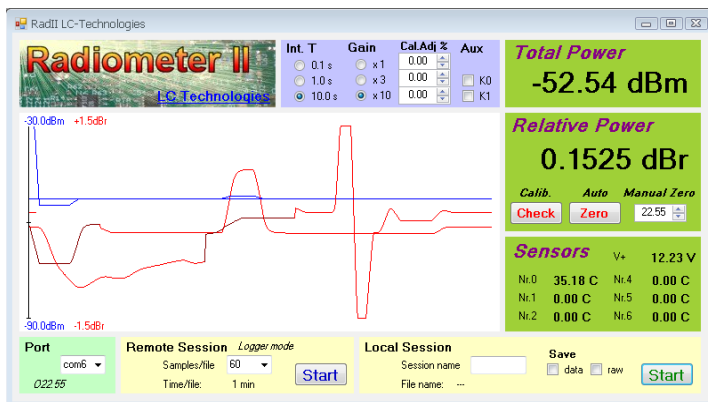
Rad-II

Intermediate Frequency (IF) module with total power measurement USB interface and data logging capabilities



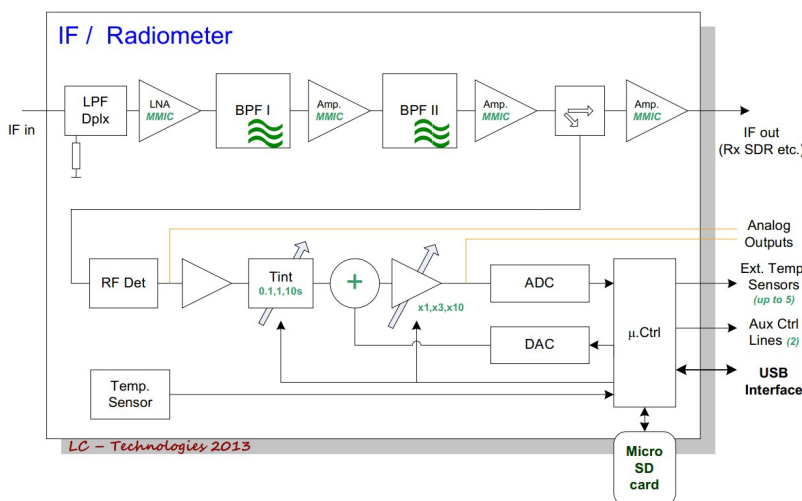
Applications:

- Radiometric back-end module for radiometric instruments and experiments.
- Atmospheric research and propagation studies.
- IF for spectrometers and other specialized receivers, SDRs etc.
- Add total power monitoring to existing receivers
- Total power Radio-Astronomy experiments



Key Features / Specifications:

- Measures total IF power within more than 60dB range with ultra fine resolution.
- Bandwidth and integration time allow better than 0.001 dB resolution
- Provides most of the IF gain of the receiver chain. Standard 45dB gain or other values per customer specifications.
- Standard IF of 70MHz or 140MHz with typical 5% bandwidth. Non standard per customer specification are possible within 50 to 1GHz
- Temperature sensors with 0.01 °C resolution to allow system gain compensations during processing and/or retrieve environmental data. Has one internal temperature sensor and accepts up to 5 external sensors.
- Two digital control lines that may find use in calibration control, switching to a reference, noise injection or any other on/off control.
- PC control or standalone (logger mode) operation, micro-SD card storage allow several months of unattended operation.



- micro-SD card slot and USB interface
- PC software included. Simple user friendly graphical interface with display of total power and relative total power variations with graphical visualization.
- Software can save all radiometric data and radiometer raw data for further data processing.
- Module's API information is provided to allow developing your own software.
- Power, 12V (10-15V) @ 200mA. Dimensions: 105 x 67 x 16 mm

