# Spectrum Server Ethernet Module



- ARM microcomputer running an RTOS
- Real time operating system
- High speed
- Stand alone real time autonomous spectrometer operation
- Remote operation anywhere on the network
- Read spectra autonomously at full speed without mission any samples, spectra buffered until read by client
- New high level API (DLLs and LabView sub VI)
- Configure network address using standard CDI Driver Installer applet
- Designed to work with all CDI USB2 spectrometers

Control Development, Inc. has introduced a spectrum server ethernet module, which allows remote operation of any USB2-type Control Development spectrometer.  Further, it allows remote operation of a spectrometer from anywhere on the network.  *This module uses an on-board ARM microcomputer running an RTOS to control the spectrometer, providing high speed sampling with real time performance.* The computer queues up the time-stamped data (up to 65,000 spectra) until it can be read by the client, so there are no gaps in sampling.

A high level API is available in a Windows "C" DLL or a LabView sub VI, has all the functions provided in our spectrometer control program, Spec32.  The high-level commands allow totally asynchronous operations of the client and the spectrum server.

Following are some applications that well suited for RTOS and high speed sampling:

- On line quality control and characterization of Light Emitting Diodes
- Monitoring and profiling temperature during wafer growth
- On line analysis in the food, feed, grain and flour industries
- On line quality control of solar cell manufacturing
- High speed kinetic studies

Part Number                                              SSEM

Control Development, Inc., reserves the right to change specifications without notice.

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