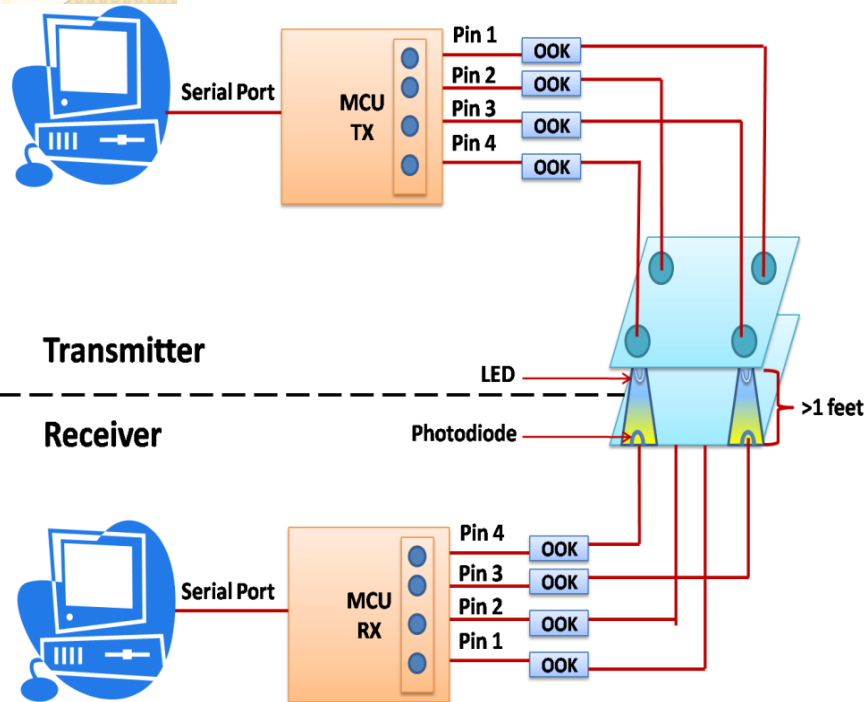


Introduction and Motivation

- VLC as an alternative to conventional wireless communication
 - Larger spectrum
 - Extremely high data rates at short distances
- OOK as a modulation technique
 - Simplicity in implementation (“ON/OFF”)
 - For applications requiring low data rates (transfer of text, audio etc)

Demo Setup



- Serial to parallel conversion of bit stream
- Four Optical Channels operating simultaneously
- Scalability in implementation to higher platforms

Results

Parameter	Value
Distance between LED and photodiode	36.7cm
Measured Illuminance	1600 lx
Measured bit rate per channel	50kbps
Focal Length of each lens	0.059m

