

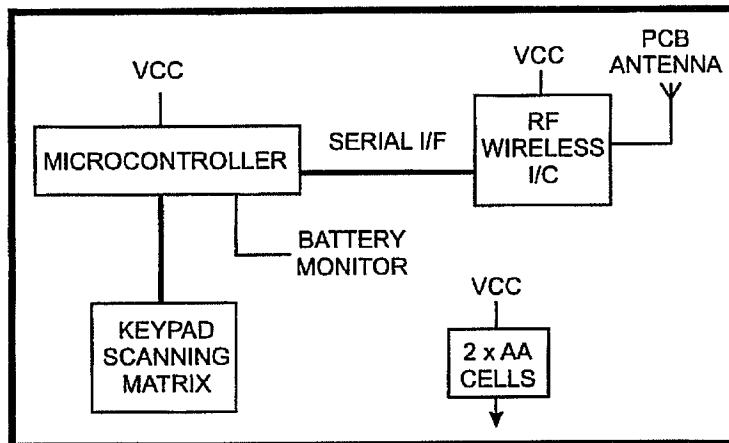
Document Name: Remote Control Design Specification		Page: Page 6 of 16
Project Name: HYDRA		Issue: 1.2
Prepared By: NPL		Date: 09 Jan 2009
Revised By:	Specification Predecessor (SP):	Document No.: 1004-005-001
	1004-001-001	SP Issue: 1.1

2.0 Hardware Design Specification

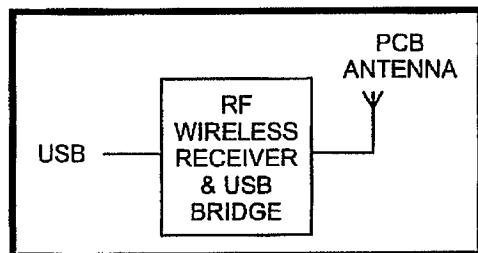
SP Ref.

2.0.1 Block diagrams

2.0.1.1 Wireless RF remote control



2.0.1.2 USB RF dongle



2.0.2 Remote Control Design

All of the components will be on a single PCB.

2.0.2.1 Wireless IC

2.3.b)

The RF wireless IC will be Nordic nRF24L01+. This is specifically designed for low power battery operated systems. The frequency of operation is the worldwide 2.4GHz ISM band. Aerial will be a PCB track. It is essential that the aerial is not covered in any way by any PCB track or pad. Area of at least 15mm