6. Circuit Diagrams and Parts List

This section contains circuit schematics and printed circuit board details.

6.1 List of Illustrations

Diagram Reference	Sheet Code	Description	Comment
Figure 6.1	1	SRM9000 Block Diagram	Illustration showing all subsection interconnections
Figure 6.2	2	DSP and FGPA Schematic	
Figure 6.3	3	Power Supply Schematic	
Figure 6.4E0	4	Receiver Circuit Schematic	E0 Band (66 - 88MHz)
Figure 6.4AC	4	Receiver Circuit Schematic	AC Band (136 - 174MHz)
Figure 6.4TK	4	Receiver Circuit Schematic	TK Band (400-450MHz)
Figure 6.4UW	4	Receiver Circuit Schematic	UW Band (440- 500MHz)
Figure 6.5E0	5	Transmitter Circuit Schematic	E0 Band (66 - 88MHz)
Figure 6.5AC	5	Transmitter Circuit Schematic	AC Band (136 - 174MHz)
Figure 6.5TK	5	Transmitter Circuit Schematic	TK Band (400-450MHz)
Figure 6.5UW	5	Transmitter Circuit Schematic	UW Band (440- 500MHz)
Figure 6.6E0	6	Synthesiser - VCO Schematic	E0 Band (66 - 88MHz)
Figure 6.6AC	6	Synthesiser - VCO Schematic	AC Band (136 - 174MHz)
Figure 6.6TK	6	Synthesiser - VCO Schematic	TK Band (400-450MHz)
Figure 6.6UW	6	Synthesiser - VCO Schematic	UW Band (440- 500MHz)
Figure 6.7E0	7	Synthesiser - PLL Schematic	E0 Band (66 - 88MHz)
Figure 6.7AC	7	Synthesiser - PLL Schematic	AC Band (136 - 174MHz)
Figure 6.7TK	7	Synthesiser - PLL Schematic	TK Band (400-450MHz)
Figure 6.7UW	7	Synthesiser - PLL Schematic	UW Band (440- 500MHz)
Figure 6.8	8	A/D Converter Schematic	
Figure 6.9	9	D/A Multiplexer Schematic	
Figure 6.10	10	I/O Connections Schematic	
Figure 6.11	-	SRM9000 PCB layout, Top	1 of 2
Figure 6.12	-	SRM9000 PCB layout, Top	2 of 2
Figure 6.13	-	SRM9000 PCB layout, Bottom	1 of 2
Figure 6.14		SRM9000 PCB layout, Bottom	2 of 2

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