

System Configurations for TangerineSDR Data Engine

Version 0.1
Date 04/25/19

Personal Science Work Station Configuration

DE Specification	Interface	Equipped with which module?	Functionality
2.2	Clock Port	GPS Clock / Synth Module	
2.3.1	SDRAM Slot	??	??
2.3.2	QSPI Flash Slot	??	??
2.3.3	SDXC Memory Slot	??	??
2.3.4	Crypto Auth	Yes – hardwired	??
2.3.5	RTC Slot	??	??
2.3.6	Temp Sensor	Yes – hardwired	Calibration? Alarm?
2.1.1	Gigabit Ethernet	Yes – hardwired	Control + Data
2.1.2	USB 2 Port	??	?? Note Paragraphs # out of order
2.1.3	USB 3 Port	??	??
2.1.4	WiFi / Bluetooth	??	??
2.2.1	SBC Hat	??	??
2.2.2	Arduino Port	??	??
2.2.1	mikroBus Click Port	??	?? Note repeated Spec Paragraph #
2.2.2	Ultra96 Port	??	??
2.2.1	Pmod Port	??	?? Note repeated Spec Paragraph #
2.2.1	Grove Port	??	?? Note repeated Spec Paragraph #
2.2.2	LS GPIO	Yes – hardwired	??
2.2.3.1	LS Analog In	Yes – hardwired	??
2.2.3.2	LS Analog Out	Yes – hardwired	??

Sheet1

2.4.1	Jumpers	N/A	TBD	
2.4.2	Build ID	Yes – hardwired	DE Version Identification	
2.4.3	LEDs	Yes – hardwired	TBD	
2.4.4	Push Button			
2.4.5	Buzzer			
2.4.1	Fan			Note repeated Spec Paragraph #
2.4.2	PTT Paddle AMP	No	Not Used	Note repeated Spec Paragraph #
3.1	RF module M.2	Receiver	HF Receiver	
3.2	RF module M.2	No	Not used	
3.3.1	Ext GPS Active Ant	Yes – hardwired	GPS Antenna + Power	
3.3.2	Ext 10 M Ref	Yes – hardwired	Not used	
3.3.3	Clock Output	Yes – hardwired	Not used	
3.3.4	USB GPSDO Control	Yes – hardwired	Control GPS receiver	
3.4.1	Micro SDXC Socket	??	??	
3.4.2	FPGA JTAG Conn	??	??	