

Item	Description			Quantity
Bench Oscilloscope	• 4 analogue channels • 200 MHz bandwidth, 2 GS/s • At least 9-inch color display • Probe interface support: active, differential, and current probes • FFT function support • USB 2.0 host port • USB 2.0 device port			1
Digital Multimeter	DC millivolts	Range/resolution	600.0 mV/0.1 mv	1
	DC volts	Range/resolution	• 6.000 V/ 0.001 V • 60.00 V/0.01 V • 600.0V/0.1 V	
	AC millivolts True RMS	Range/resolution	600.0 mV/0.1 mV	
	AC volts True RMS	Range/resolution	• 6.000 V/0.001 V • 60.00 V/0.01 • 600.0V/0.1 V	
	Continuity	Range/Resolution	600Ω / 1Ω	
		Accuracy	Beeper on < 20Ω, off > 250 Ω	
	Ohms	Range/Resolution	• 6.000 MΩ/ 0.001 MΩ • 600.0 kΩ / 0.1 kΩ • 60.00 kΩ / 0.01 kΩ • 6.000 kΩ / 0.001 kΩ	
		Accuracy	0.9% + 1	
	Diode test	Range/Resolution	2.00 V/ 0.001 V	
		Accuracy	0.9% + 2	
	Capacitance	Range/Resolution	• 1000 nF / 1 nF • 10.00 μF / 0.01 μF • 100.0 μF / 0.1 μF • 9999 μF / 1 μF • 100 μF to 1000 μF	
		Accuracy	1.9% + 2	
		Range/Resolution	>1000 μF	
		Accuracy	5% + 2	
	Lo-Z capacitance	Range/Resolution	1 nF to 500μF	
		Accuracy	10% + 2	
	DC amps	Range/resolution	• 6.000 A / 0.001 A • 10.00 A / 0.01 A	
		Accuracy	1.0% + 3	
	Hz (V or A input)	Range/resolution	99.99 Hz / 0.01 Hz 999.9 Hz / 0.01 Hz 9.999 kHz / 0.001 kHz 50.00 kHz / 0.01 kHz	
		Accuracy	0.1% + 2	
	Maximum voltage between any terminal and earth ground		600 V	
	Battery type		9 volt alkaline, IEC 6LR61	
DC Power Supply	Output DC Voltage: 0.0 – 30.0V Output DC Current: 0.00 – 5.00 A			1

	Outputs: 2x 30V 5A + 5V 3A Input Voltage: 110V/AC, 220V/AC, 60Hz Voltage and Current adjustment Voltage regulation: CV < 0.01% + 3mV, CC < 0.01% + 6 mA Load regulation: CV < 0.01% + 2mV, CC < 0.01% + 6mA Ripple and noises: CV < 1 mV rms, CC < 3 mA, rms Protection: High current limiting Operating Temperature: 0 - 40 °C, Relative Humidity: < 80% LCD Accuracy is within +/- 2.5% Size: 360 x 265 x 165 mm	
Rework Station (3-in-1) - Hot air / Separator and Soldering Iron Machine	Hot Air Temperature Range: 100°C to 500°C Soldering Iron Temperature Range: 200°C to 480°C Power Consumption: - Hot Air Gun: 700W - Soldering Iron: 60W - Preheater: 500W Airflow: 120 liters per minute (max)	1
Compact Oscilloscope (PC Based)	Number of Channels: 2 Bandwidth: 50MHz Sampling Rate: 500MS/s Interfaces: CAN, IIC, LIN, RS232, SPI, UART, USB Power Source: USB Weight: < 200g Minimum Vertical Sensitivity: 4mV/div Maximum Horizontal Sensitivity: 4V/div Minimum Time Base: 2ns/div Maximum Time Base: 5000s/div	1
FPGA Evaluation Kit	Processors: Zynq™ UltraScale+™ MPSoC with a quad-core Arm® Cortex®-A53, dual-core Cortex-R5F real-time processors GPU: Mali™-400 MP2 Communication & Networking - RGMII communications at 10, 100, or 1000 Mb/s. Serial GMII interface-supports a 1 Gb/s SGMII interface 4x SFP+ interfaces for Ethernet - SMA GTH support (4x SMA Tx/Rx connectors) - UART To USB bridge - RJ45 Ethernet connector - SATA (1 x GTR)** - PCIe Gen2x4 Root Port** Memory - PS 4GB DDR4 64-bit SODIMM w/ ECC - PL 512MB DDR4 component memory ([256 Mb x 16] devices) at 1200MHz / 2400Mbps DDR 8KB IIC EEPROM - Dual 64MB Quad SPI flash - SD card slot Configuration	1

	- Onboard JTAG configuration circuitry to enable configuration over USB - Dual Quad-SPI flash memory - Boot from SD card																																								
Single-board Computer (SBC)	CPU: Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache GPU: VideoCore VII GPU, supporting OpenGL ES 3.1, Vulkan 1.2 Display: Dual 4Kp60 HDMI® display output with HDR support 4Kp60 HEVC decoder Memory: LPDDR4X-4267 SDRAM (2GB, 4GB, and 8GB) Connectivity: Dual-band Wi-Fi®, Bluetooth 5.0, 2 × USB 3.0 ports, 2 × USB 2.0 ports, Gigabit Ethernet Power: 5V/5A DC power via USB-C, with Power Delivery support	1																																							
Mid-Range Biometric Terminal	<table> <tr> <td>Type</td><td>Biometric</td><td></td></tr> <tr> <td>Ingress Protection</td><td>IP65</td><td></td></tr> <tr> <td>Memory</td><td>MAX Users (Card)</td><td>1 500</td></tr> <tr> <td>MAX Templates</td><td>3 000</td><td></td></tr> <tr> <td>MAX Users (1:1)</td><td>1 500</td><td></td></tr> <tr> <td>MAX Users (1:N)</td><td>1 500</td><td></td></tr> <tr> <td>Recommended Users (1:N)</td><td>1500</td><td></td></tr> <tr> <td>Transaction Log</td><td>100 000</td><td></td></tr> <tr> <td>Max Access Groups</td><td>256</td><td></td></tr> <tr> <td>Max Access Areas</td><td>128</td><td></td></tr> <tr> <td>Max Access Times</td><td>128</td><td></td></tr> <tr> <td>Max Time Zone</td><td>128</td><td></td></tr> <tr> <td>Support TOC</td><td>Yes</td><td></td></tr> </table>	Type	Biometric		Ingress Protection	IP65		Memory	MAX Users (Card)	1 500	MAX Templates	3 000		MAX Users (1:1)	1 500		MAX Users (1:N)	1 500		Recommended Users (1:N)	1500		Transaction Log	100 000		Max Access Groups	256		Max Access Areas	128		Max Access Times	128		Max Time Zone	128		Support TOC	Yes		2
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	Support TOC – Offline T&A	Yes	
	Communication	To UNIS	TCP/IP
	Other	USB	
	Controller MCP-040	RS485 OSDP	
	To 3rd Party Devices	Wiegand	Yes
	RS 232	Printer	
	RS 485 OSDP	Yes	
	From 3rd Party Devices	Wiegand (26bit, 34bit)	Yes
	Display	LCD	Colour Graphic LCD
		Size	44.9 x 44.9
		Backlight	YES
	Built-In Camera		No
	Card Reader	RFID, 125KHz – EM 4100	YES
		Smart Card	YES
		Mifare	YES
	Auto Scan		YES
	Function Keys		4
	Sensor Type		Optical
	Verification	1:1	< < 1 sec
	Identification	1:N (1000)	< < 1 sec
	Support Slave Reader	SR-100FP	YES

Electronics Technician Toolkit Note: chrome vanadium steel for tools, ABS or reinforced plastic for the case	Screwdrivers: • A wide range of precision in various sizes. • Magnetized tips for secure screw handling. • Insulated handles for electrical safety. Pliers: • Long-nose pliers • Diagonal cutting pliers • Combination pliers (with gripping and cutting functions) Cutters: • Wire strippers with multiple gauge sizes • Flush cutters Soldering Tools: • Soldering iron with adjustable temperature control • Soldering stand with cleaning sponge • Desoldering pump or wick Measuring and Testing Tools: • Multimeter with voltage, current, and resistance measurement capabilities • Continuity tester Tweezers: • Different types, universal, positioning, and universal bent. Other: • Wrist strap • Cord, grounding • File, flat second cut • Magnetic pickup, telescopic and pen • Knife, trimming retractable • Insulation tape • Adjustable wrench		1
ESD-Safe Table Mat	Thickness	>= 2 mm	1
	Length	1.2 m	
	Width	0.6 m	
	Surface texture	Smooth	
	Number of layers	2	
	Resistance	2.3 x 100,000,000Ω	
Magnifier Lamp	Magnifying Lens Size: 4 x 2.5" Range: 3x A/C Plug (Y/N): Y Supplied with: Clamp to affix to any bench or table Brightness: 9.4 Watt LED bulb		1