

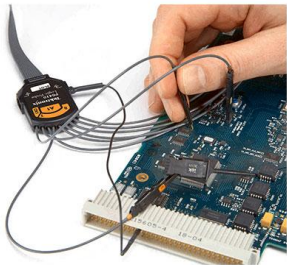
205 & 205A Electronics Lab Upgrade: Oscilloscope with built-in Logic Analyzer, Spectrum Analyzer & Function Gen

EE96 - Lab 205 & 205A Upgrade

	Fiscal Year 1	Fiscal Year 2	Fiscal Year 3	Total
Hardware One-Time	\$ 44,421	\$ -	\$ -	\$ 44,421
Hardware Recurring	\$ -	\$ -	\$ -	\$ -
Software One-time	\$ -	\$ -	\$ -	\$ -
Software Recurring	\$ -	\$ -	\$ -	\$ -
Personnel One-time	\$ -	\$ -	\$ -	\$ -
Personnel Recurring	\$ -	\$ -	\$ -	\$ -
Other One-time	\$ -	\$ -	\$ -	\$ -
Other Recurring	\$ -	\$ -	\$ -	\$ -
Totals	\$ 44,421	\$ -	\$ -	\$ 44,421



Tek MDO3024 Oscilloscope, 4 channel, 200Mhz with Spectrum Analyzer, 3 GigaHertz



Tek MDO3MSO Logic option probe

205 & 205A Electronics Lab Upgrade: Oscilloscope with built-in Logic Analyzer, Spectrum Analyzer & Function Gen

quan	Part Number	Description	price	frt	One Time Totals	Reoccurring	website
Total ok= 44420.85			\$0.00		\$44,420.85	\$0.00	

Software					\$0.00		
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Hardware & Supplies					\$44,420.85	\$0.00	
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Shipping (estimated)					\$0.00	\$0.00	
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Software		N/A			\$0.00		
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Equipment	Quantities above 3 are for Spare Parts for all Labs					\$0.00	
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3	Laptop	Dell	\$464.25	\$0.00	\$1,392.75
10	LA5016	Logic Analyzer 16 channels, 500M sampling rate	\$168.00	\$0.00	\$1,680.00
10	Open Workbench Logic Sniffer	Open Workbench Logic 32 Channel Logic Analyzer - Java Based	\$50.00	\$0.00	\$500.00
10	Bus Pirate v3.6	"Bus Pirate" v3.6 Universal Serial Interface Debugger	\$27.15	\$0.00	\$271.50
10	BP - Cables	BP Cables	\$7.00	\$0.00	\$70.00
10	BP - Case	BP Case	\$3.00	\$0.00	\$30.00
3	Tek MDO3024	3 GigaHertz Spectrum Analyzer with 200Mhz Oscilloscope	\$2,514.00	\$0.00	\$7,542.00
3	Tek MDO3SA	Spectrum option	\$0.00	\$0.00	\$0.00
3	Tek MDO3BND	Bundle option	\$0.00	\$0.00	\$0.00
3	Tek MDO3MSO	Logic option	\$858.21	\$0.00	\$2,574.63
3	Tek 5R	5 yr Calibration & Warranty	\$374.29	\$0.00	\$1,122.87
3	N-to-BNC connector		\$0.00	\$0.00	\$0.00
20	XMEGA Xprotolab	Xprotolab - Mixed Signal Oscilloscope DIP Module	\$49.00	\$0.00	\$980.00
20	Logic Probe	B&K Precision DP31A Logic Pulser Probe	\$37.00	\$0.00	\$740.00
20	Cable Lock	Kensington K64615US Computer + Peripherals Locking Kit	\$19.99	\$0.00	\$399.80
1	TCP0020	20amp Current Probe	\$2,002.50	\$0.00	\$2,002.50
1	TCP0150	25 & 150amp Current Probe	\$3,375.00	\$0.00	\$3,375.00
1	P6015A	20kV Single Sided High Voltage Probe (1000x)	\$1,500.00	\$0.00	\$1,500.00
1	TPP0850	2.5kV Single Sided Medium High Voltage Probe (50x)	\$615.75	\$0.00	\$615.75
1	THDP020	1.5kV Differential Medium High Voltage Probe (50x/500x)	\$1,402.50	\$0.00	\$1,402.50
1	TDP0500	500MHz Low Voltage probe, (5x / 50x)	\$2,677.50	\$0.00	\$2,677.50
8	TPP0250	250MHz passive probe (10x)	\$129.20	\$0.00	\$1,033.60
2	P6316	MSOLogic Probe	\$488.60	\$0.00	\$977.20
1	TPA-N-PRE	Preamplifier, 12 dB nominal Gain, 9 kHz - 6 GHz	\$2,040.00	\$0.00	\$2,040.00
1	TPA-N-VPI	N-to-TekVPI adapter	\$397.00	\$0.00	\$397.00
1	119-4146-00	Near field probe set, 100 kHz - 1 GHz	\$2,218.50	\$0.00	\$2,218.50
16	119-6609-00	Flexible monopole antenna	\$83.30	\$0.00	\$1,332.80
1	TEK-DPG	Deskew pulse generator signal source	\$690.00	\$0.00	\$690.00
1	067-1686-xx	Power measurement deskew and calibration fixture	\$344.25	\$0.00	\$344.25
1	TEK-USB-488	GPIO-to-USB adapter	\$434.35	\$0.00	\$434.35
1	THDP0100	+6 kV, 100 MHz TekVPI® high-voltage differential probe	\$2,236.35	\$0.00	\$2,236.35
4	Beehive 101A	EMC probe amplifier	\$236.00	\$0.00	\$944.00
4	Beehive 150A	EMC probe set	\$420.00	\$0.00	\$1,680.00
16	Beehive 100C	Probe / Antenna	\$76.00	\$0.00	\$1,216.00

See "Dell" Worksheet

www.seeedstudio.com/depot/LA5016-Logic-Analyzer-p-2219.html

<http://www.seeedstudio.com/depot/Open-Workbench-Logic-Sniffer-p-612.html>

<http://www.seeedstudio.com/depot/Bus-Pirate-v36-universal-serial-interface-p-609.html>

<http://www.seeedstudio.com/depot/Bus-Pirate-v3-probe-cable-with-labels-and-male-pins-p-1827.html>

<http://www.seeedstudio.com/depot/Bus-Pirate-v36-acrylic-case-v1-DP6037-p-1229.html>

<http://www.farnell.com/datasheets/1794126.pdf>

& the .Pdf is also attached.

<http://www.farnell.com/datasheets/1794126.pdf>

<http://www.seeedstudio.com/depot/XMEGA-Xprotolab-p-1336.html>

<http://www.amazon.com/Precision-DP31A-Logic-Pulser-Probe/dp/B0047D05NI>

<http://www.amazon.com/Kensington-K64615US-Desktop-Computer-Peripherals/dp/B0036Z9TNU>

<http://www.tek.com/probes>

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<http://www.tequipment.net/Beehive101A.html?search=true>

<http://www.tequipment.net/Beehive150A.html?w=0>

<http://www.tequipment.net/Beehive100C.html>

The Engineering TSG group will provide support and a Microsoft Windows OS software image for the hard drives

Note: Dell Latitude 3340 (210-ABYW)

4GB (1x4GB) 1600MHz DDR3L Memory (370-AAQI)
Internal English Keyboard (580-ABXF)
Intel Integrated HD Graphics (490-BBSS)
Dell Wireless 1707 Driver (555-BBSY)
250GB (7.200 Rpm) Serial ATA Hard Drive (400-AEKE)
Ubuntu 12.04 Long Term Support (LTS) SP1 (619-AAET)
US Order (332-1286)
Primary 4-cell 43W/HR Battery (451-BBIG)
No Wireless WAN Card (362-BBBB)
No Carrying Case (460-BBEX)
Dell Wireless 1707 802.11n Single Band + Bluetooth 4.0 LE Half Mini Card (555-BBRT)
E5 Power Cord (US) (537-BBBD)
No Media (620-AAOH)
No Dell Backup and Recovery software (637-AAAM)
BTO Standard Shipment (S) (800-BBGT)
Safety/Environment and Regulatory Guide (English/French/Dutch) (340-AGIK)
No Camera Software (319-BBBK)
Dell Limited Hardware Warranty (997-6727)
Mail In Service after Remote Diagnosis, 3 Years (997-6730)
No Resource DVD (430-XXYG)
No Quick-Reference Guideline (340-AASE)
No Energy Star (387-BBCE)
Intel Celeron Processor 2957U (1.4 GHz, 2MB, Dual Core) (338-BDWO)
No DDPE Encryption Software (954-3465)
Direct Ship Info Mod (340-AASO)
SHIP SHUTTLE (340-AIHZ)
SHIP MIN-CONFIG (340-AIIB)
SHIP MATERIAL SHUTTLE (340-AIIE)
SHIP MATERIAL (340-AIIF)
Thank you for Choosing Dell (340-AIIK)
LCD Back Cover for 3340, BLACK (320-BBGT)
No DDP|ESS Software (634-BENZ)
No Intel Responsive (551-BBBJ)
Intel(R) Celeron(R) CPU Label (389-BCIO)
33.8cm (13.3") HD (1366x768) LED-backlit Non-Touch LCD Panel (391-BBMV)
No Productivity Software, Dell OptiPlex, Precision and Latitude (421-3872)
ODM Info (640-BBIB)
Software for Latitude 3340 (640-BBMX)
No Security Software (650-AAHI)
65W AC Adapter, 3-pin (492-BBEM)