

**Division of Academic Affairs
Technology Fee – ITEP Project Proposal: 2016**

Project Proposal Type

Instructional Technology Enhancement Project (ITEP)

Focused projects proposed by an individual or small team with the intention of exploring new applications of instructional technology. ITEPs will typically be led by a faculty “principal investigator.” ITEPs are time-limited projects (up to two years in length) and allocations of Technology Fee funds to these projects are non-recurring.

Project Title

Technology in Support of Student Education and Training in Avian Science

Total Amount of Funding Requested

\$18,035.49

Primary Project Coordinator

Phil Darby, Professor, Dept. of Biology

Division of Academic Affairs 2016

- 1. Project description.** This project will obtain scientific equipment used to conduct quantitative studies of bird behavior and demography and result in the development of hands-on exercises for students enrolled in a new course, Avian Science (ZOO 4472 and ZOO 5475), approved to start in fall 2016. Avian research and monitoring is a STEM discipline that increasingly requires technology to quantify and analyze data on birds and their habitats. Students interested in any area of ecology and conservation biology will benefit from training using this equipment. In the context of this proposal, the equipment will be used to train students in data collection of bird movements, survival, causes of nest failure, and estimating population size. Some exercises may also be incorporated into Ecology Lab (PCB 4043L), at least at a demonstration level. In addition, we will demonstrate landscape level modeling to Avian Science and Ecology students and also provide opportunities for graduate and undergraduate students to run landscape level models as part of a directed study, honors thesis, or MS thesis. Advanced students with programming skills may also have opportunities to create code to develop new landscape-level population models of wetland birds and other wetlands fauna (a main driver for the proposed models is wetland water-level data). Having this equipment also provides an opportunity for me (P.I., Darby) and student research assistants to refresh, update, and learn new skills related to Avian Science, an increasingly growing part of my research program that includes projects in the Pensacola area. Course-related lab exercises and directed studies may include collecting data in collaboration with the Gulf of Mexico Avian Monitoring Network (Mississippi State) to survey marsh birds and the US Fish and Wildlife Service (Daphne, AL) to study nesting shorebirds. [Darby and graduate students have already met with collaborators and discussed these projects.] UWF also provides a variety and abundance of habitats that supports avian communities that will be the target of student training exercises.
- 2. Description of project alignment with UWF Strategic Plan.** This project directly addresses strategic directive #1, enhancing student learning, through the use of technology, that is pertinent and highly relevant to skills applied in field ecology. Access to this equipment provides an opportunity for hands-on experiences in a course setting, as well as opportunities for students to learn through directed studies and/or participation in research projects. Students in Avian Science and those completing directed studies will have sufficient experience with this equipment to include said experience on their resumes. By having equipment that can be used in the context of research of interest to regional agencies (e.g., US Fish and Wildlife Service, Daphne, AL, and National Park Service, Gulf Breeze, FL), this project also provides the foundation for supporting strategic directive #3, cultivating community partnerships. Presenting results of our work (e.g., to local Audubon Society members) furthers UWF community outreach.
- 3. Description of benefits provided:**

 - a) *Ways in which student access to technology will be enhanced.* Most of the acquired equipment is routine in avian monitoring and research, and is also used to study other groups of animals. Material and lab fees are not sufficient for these purchases. The ability to run large-scale landscape models on the computer

means quick turn-around output and an ability to evaluate a number of ‘what-if’ scenarios of how changes in the environment influence animal populations.

- b) *How the student experience will be enhanced.* The result of this project will be hands-on training to develop skills directly applicable to any job that involves monitoring and research of birds and other animals (e.g., telemetry work applies to land and marine mammals, sea turtles, other reptiles, etc.). Having the equipment is the difference between showing slides about techniques (which have been completed in preparation for Avian Science) versus having students actually use the techniques and execute the technical details, the art, and the nuance of actually getting the equipment to work correctly. The student employed to order the equipment, set it up, learn how to use it, and develop some field exercises for courses, will develop expertise that greatly enhances their professional development. [P.I. already has three candidates for consideration for the position.] Their OPS salary is part of the budget proposed herein.
- c) *How assessment will be conducted.* Direct testing of individuals on their ability to describe and use the equipment and to interpret the data collected will be incorporated into the classroom (Avian Science, Ecology) and in directed studies (all of which receive a grade). Honors thesis students and MS thesis students also have assessment protocols that would apply to use of this equipment in their projects.
- d) *Which and how many students will be impacted.* Biology and likely Environmental Studies undergraduate and graduate students signing up for Avian Science (capped at 20 students, since so much of it is hands-on), Ecology (up to 80 students, at least at the level of demonstrating the technology), and Directed Study students (typically 1-3 a year, but with this new opportunity that could easily double). The annual estimate would be 100 students, with greatest impact on about 25 per year (Avian Science, plus directed study). The one-time experience by the student-technician employed by this proposed project, and future TAs for the Avian Science course, should also be considered.
- e) *How students with special needs or disabilities would be helped.* Most special needs students should be able to use all the equipment. Telemetry equipment (exercises can be done on campus with no need to leave sidewalks) and of course the computer (for landscape modeling) can be used by students with limited mobility.
- f) *How training of students and faculty in the use of technology would be enhanced.* Hands-on training (or in the case of the P.I., updating and refreshing skills) is equally valuable to course-enrolled students as it is to faculty and undergraduate and graduate students engaging in research and local bird monitoring efforts. These skills can be demonstrated through successful data collection that can be published and serve as proof of competency as we submit grants to fund research that supports faculty, students, and staff. Some of the equipment could be used by

other faculty that study things other than birds (e.g., telemetry on amphibians and reptiles to compliment on-going research by UWF students at Naval Live Oaks, Gulf Breeze; adding submersible hydrophones to the digital audio recorder to survey marine species).

4. **Description of how the initiative has a potential scope within and beyond that of the proposing unit.** Environmental studies students have taken my courses, so I expect to see some of those students in my Avian Science course and possibly also for directed studies. I have been invited to work with, and have UWF students take the lead on, projects of interest to the Gulf of Mexico Avian Monitoring Network (M. Woodrey, Mississippi State, and colleagues) and US Fish and Wildlife Service (B. Spears, Natural Environmental Resource Damage Assessment) that would include the equipment and the students trained to deploy it. The amount of proposed equipment may not be sufficient to conduct a full scale study (e.g., digital recording surveys would require many more units, depending on the scale of the study); however experience using the equipment and the opportunity to provide preliminary data to demonstrate competency with the equipment and data analyses increases the probability that the P.I. and graduate students can secure external funding for full-scale wildlife research and monitoring projects.

5. **How will success be measured? Provide metrics.** Enrollment in courses and directed studies and feedback from students expressing the value of the experience using this equipment will be one measure of success. Getting additional UWF funding for student projects (including honors thesis, directed studies, thesis projects) that depend on the equipment and/or student training will be another metric. Data collected by students that support on-going bird monitoring and research is a tangible measure of success. Tracking student career development that includes skills learned through use of the equipment and landscape modeling exercises would demonstrate that this technology grant was successful in enhancing student education that fosters career development. Training and experience for the P.I., graduate students, and staff that leads to securing external grants and contracts for student training and research is another metric of the success and value of funding this technology proposal.

6. **Description of resources for the project and projected ongoing resource needs (total cost of ownership for the life of the project) including:**

Budget table provided below. Cost estimates from vendors attached at the end of this proposal.

- a) *Any hardware requirements (which should comply with standards established by the ITPAC (Information Technology Planning and Advisory Committee). 1) Motion sensitive camera and data storage for nest monitoring, 2) Telemetry equipment for tracking movements using radio transmitters, 3) advanced GPS and*

software for navigation, documenting transmitter locations, quantifying habitat patch size, mapping, 4) Digital recorder for bird song surveys per Zwart et al. 2014 (PLoS ONE 9: e102770, doi:10.1371/journal.pone.0102770), 5) Call-back system for marsh bird surveys as specified by Conway 2009 and adopted by the Gulf of Mexico Avian Monitoring network (required for protocol standardization) (<http://www.bioone.org/doi/pdf/10.1675/063.034.0307>), 6) Rangefinder to estimate distances of observed birds and their songs responding to the call-back system 7) miscellaneous equipment (batteries, waterproof carrying cases, etc.) to store, carry and preserve equipment used in the field, 8) a solid state high capacity computer that can run the EverView platform for landscape modeling of bird population response to environmental changes (specifications came from USGS JEM modeling team; also see section c, below). *For hands-on in-class exercises, multiple pieces of equipment are required (anticipated enrollment is 20 students for Avian Science) so all students have enough time to use the technology during a class exercise. Explanation and justification for specific quantities and technical details are not provided here in the interest of brevity, but available upon request by contacting the P.I.*

- b) *Any software requirements (which should comply with standards established by the ITPAC (Information Technology Planning and Advisory Committee).* Equipment-specific software comes with the digital recording system used to survey bird song in the field, and with the advanced GPS unit. The EverView platform and sample population models that can be used for training are available through my collaborators at the US Geological Survey (USGS) at no charge (also see section c below). Software for analysis of telemetry data are generally available to the public, also through USGS (<http://www.mbr-pwrc.usgs.gov/software.html>).
- c) *Any personnel costs – OPS, non-recurring.* Support is needed for a student technician to order, assemble, learn to use, and help the P.I. develop field exercises for Avian Science and Ecology using the equipment. Field exercises and skill assessment must be field tested before implementation in a course; this requires days in the field collecting data followed by data management and analyses. This effort includes obtaining permits to deploy equipment on state and federal property (some will also be deployed on campus, which also requires permission) and days spent scouting areas for targeted species (e.g., Garcon Point is a likely area that supports marsh birds like rails, a species targeted for the call-back equipment). Based on Zwart et al. 2014, setting up the software for bird song (acoustical) analysis is time-intensive. In addition, we have to obtain the computer code for the landscape modeling and get some in-person instruction from US Geological Survey (USGS) on the use of EverView, the platform used for the proposed landscape level population modeling. EverView and associated models are US Geological Survey products (www.jem.gov) that rely on on-site software coding contractors at their Lafayette, LA research center. This platform is managed by the Joint Ecosystem Modeling Team (or JEM, led by USGS, S Romanach) and supported the P.I.'s publication on the creation of a population

model using large scale hydrologic data in the Everglades (Darby et al., 2015, Landscape Ecology 30: 1497-1510). Total estimated time for the student technician is 240 hours at 13.39 per hour (pay rate for Biology graduate student TAs), or \$3214, plus 3.65% required fringe (additional \$118). We also request \$1000 to support travel for the student technician to go to Lafayette, LA to secure the EverView software and get some training (should the P.I. decide to also travel, other funding sources, e.g., seed account or personal funds, may be used).

ESTIMATED COSTS FOR EQUIPMENT (vendor quotes / prices are attached)*

Description	Unit Price (No. of Units)	Total Cost
Telemetry Receiver	\$1,990 (3)	5970.00
Telemetry Antennae	\$160 (3)	480.00
Telemetry Case (field grade)	\$45 (3)	135.00
Telemetry Receiver charger	\$95 (3)	285.00
Telemetry Headset	\$250 (1)	250.00
Radio transmitter (42 g)	\$179 (3)	537.00
Game Camera (nest monitor)	\$159.99(1)	159.99
Camera additional data card	\$29.99 (1)	29.99
Camera lock	\$49.29(1)	49.29
Digital acoustic recorder + accessories + software	\$2014.85 (1)	2014.85
Multi-card reader (acoustics data)	\$11.73	11.73
Call Back system (marsh bird survey)	299.99 (2)	299.99
Decibel meter (call back calibration, testing)	\$23.99 (2)	23.99
GPS with mapping software	\$249.99 (2)	249.99
Rangefinder (estimating distances for call-back data)	\$499.99 (2)	499.99
Batteries for camara, GPS, rangefinder, etc.)	\$11.98 (3) + &13.97 (3)	77.85
Weatherproof cases for all field equipment	\$133.30 (3)	399.90
Laptop with solid-sate drive For landscape modeling	\$1928.93	1928.93
OPS student-technician time	\$3332 (see 6c for details)	3332
Technician travel	\$1000.00 (see 6c for details)	1000.00
Shipping and taxes for all equipment	\$300 (estimated, not quoted, since not calculated until actual purchase)	300.00
-----	Total requested funding from UWF ITEP funds	\$18,035.49

*costs are estimates, prices may change by time of purchase

7. **Provide the proposed timeline for the project with major milestones and project end dates.** The proposed timeline focuses on the need to have course content ready for Avian Science, August 2016. ‘Technician’ indicates the milestones are to be completed by the OPS student technician supported by the project. All other milestones will be completed by the P.I. and or a post doc.

May 15, 2016: Order equipment, which includes contacting vendors regarding technical specifications (some equipment includes a variety of options for consideration). (Technician).

June 1, 2016: Deploy digital recorders on campus and at targeted marsh-bird study sites for a field trial. Randomly select survey points and initiate the protocol for the call-back survey for secretive marsh birds per Conway 2009. Contact the Gulf of Mexico Avian Monitoring Network and the USFWS regarding proposal development for student projects that would use the call-back equipment for surveying marsh birds and for relocating nesting shorebird colonies, respectively. (Technician, with P.I.).

June 15, 2016: Load the EverView platform on to the new computer and visit with the computer coding team at US Geologic Survey, Lafayette, LA to get some on-site training on use of the graphical user interface and how to generate and manage the model output. (Technician).

July 1, 2016: Complete a draft of course content (powerpoints, template data files, etc) (Technician) and have the P.I. walk through and evaluate the complete set of field exercises, including data management and reporting.

August 1, 2016: Complete a draft demonstration of landscape-level results of a modeling exercise for the Avian Science course.

December 15, 2016: Recruit students to conduct directed studies that use the EverSnail graphical user interface to run a number of different ‘what-if’ models of how hydrology and climate affect the abundance of animal populations that live in the Everglades.

Spring 2016 (specific dates TBD): Poster presentation of 1) data collected from Avian Science students and 2) landscape model of Everglades fauna by directed study students at UWF and/or regional science forums. Oral presentation to the weekly Biology Seminar (with invitations for USFWS and NPS attendance) and possibly Pensacola Audubon society by Phil Darby and/or graduate students highlighting avian science conducted at UWF.

8. **Include a plan for sustainability of the project beyond the initial project period if applicable.** Material and supply fees (which do not start to accumulate until fall 2016), can be used to purchase additional transmitters, batteries, etc., for 2017 and beyond. These fees could also be used to service the equipment (e.g., sometimes circuits need to be repaired in electronic field equipment, or equipment-specific batteries must be replaced). Most equipment should last for 5+ years, but, as needed, additional proposals

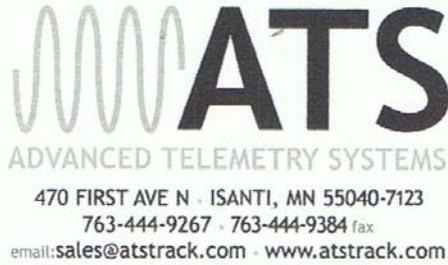
will be written to ensure we have functional (new) equipment past the 2-year ITEP equipment funding. Demonstrating success with the proposed metrics will be important for increasing our chances of new funding beyond 2017.

9. **Provide any resource matching which might be provided by organizations with appropriate commitment authority documentation.** Some equipment for Avian Science has already been obtained (e.g., spotting scopes, limited use GPS for getting location data, mirror poles for checking bird nest status, wind-temperature-humidity meters) and will round out the complete experience for Avian Science and directed study students. The department provides vans needed to take students out for field exercises that involve the proposed equipment. TAs that help train students for course-enrolled students will be provided by the Department. Dr. Darby's time (and potentially a post-doc or graduate student time) will go towards training and overseeing directed study students that use this equipment and for helping students with the landscape-level population modeling exercises.
10. **Indicate which individual or group will implement the project (to help determine any additional costs and resource restraints).** This project will be implemented by Dr. Phil Darby, an OPS student technician supported by the project, and most likely with some help from a post doc that will start to work in Darby's lab in spring or summer 2016.
11. **Indicate a lead person ("Principal Investigator") for the project for all communications and overall responsibility for reporting and fund utilization.** Dr. Phil Darby, Department of Biology, 474-2647, pdarby@uwf.edu.
12. **Project proposals should be succinct and submitted to the Technology Fee Committee by the deadline with a notice of submission to the chair and the dean or appropriately designated leadership in the unit (Center Director, etc.).** This proposal has been sent via email attachment to Drs. Pomory (Dept. Chair) and Huggins (Dean, College of Science and Engineering).

Quotes / Pricing from Vendors are attached below

QUOTATION

From:



470 FIRST AVE N · ISANTI, MN 55040-7123
763-444-9267 · 763-444-9384 fax
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To: Philip Coppola

University of West Florida

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United States

pmc22@students.uwf.edu

F.O.B.: Origin

TERMS: Net 30 days Federal ID Number: 41-1399189 Will Ship: 45 days ARO

Quote Number: 89582	Date: 1/21/2016	Quotations are valid for 90 days
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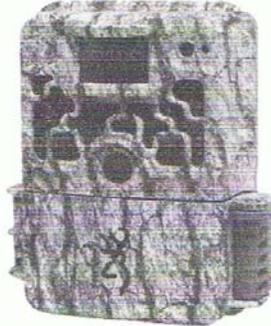
Line #	Model #	DESCRIPTION	QUANTITY	PRICE	AMOUNT
01	SHIPCHA	Shipping and Handling Charge	1	\$15.00	\$15.00
02	R4000	Challenger Receiver w/Comp Int	1	\$2,850.00	\$2,850.00
		Freq Range			
03	R2010	Glue On Transmitter	1	\$183.00	\$183.00
		Weight 10 gr			
		Prog. Description			
04	R2020	Glue On Transmitter	1	\$183.00	\$183.00
		Weight 12 gr			
		Prog. Description			
05	R2030	Glue On Transmitter	1	\$163.00	\$163.00
		Weight 24 gr			
		Prog. Description			
06	R2220	Glue On Transmitter ✓	1	\$179.00	\$179.00
		Weight 42 gr			
		Prog. Description			
07	R2000	Challenger Receiver, w/ nylon case ✓	1	\$1,990.00	\$1,990.00
		Freq Range			
08	12783	David Clark Headset ✓	1	\$250.00	\$250.00
09	13558	H Antenna 143-150	1	\$160.00	\$160.00
10	13559	H Antenna 143-150	1	\$160.00	\$160.00
11	13560	H Antenna 153-157	1	\$160.00	\$160.00
12	13561	H Antenna 153-167	1	\$160.00	\$160.00
13	13562	H Antenna 153-167	1	\$160.00	\$160.00
14	13563	H Antenna 170-174	1	\$160.00	\$160.00
15	12494	Card for Cig Lighter	1	\$25.00	\$25.00
16	14756	Receiver Case, Large	1	\$45.00	\$45.00
17	18345	AC-DC Power Supply (US)	1	\$95.00	\$95.00
				Total \$:	\$12,000.00



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Item	Description	Qty	Taxable	Unit Price	Item Total
1	SM4 Song Meter SM4 Acoustic Recorder with stereo microphones included	1	N	849.00 (USD)	849.00 (USD)
2	SM4MICSTUB Replacement internal acoustic microphone stub for SM4	2	N	50.00 (USD)	100.00 (USD)
3	D41 Set of 4 9,500mAh D IMEDION Rechargeable Batteries	1	N	76.00 (USD)	76.00 (USD)
4	MH_C808M Maha MH-C808M Charger	1	N	110.00 (USD)	110.00 (USD)
5	SDXC256 256GB SDXC Class 10 Flash Card	1	N	299.00 (USD)	299.00 (USD)
6	WT500_2 Extra Windscreen and Clip (pair) for all Song Meter microphones	2	N	15.00 (USD)	30.00 (USD)
7	ML8418D Weather Resistant Cable Lock (6ft/1.8m, keyed different)	1	N	24.00 (USD)	24.00 (USD)
8	SWSCOPE Song Scope V4 Software (1 seat) with 1 year of updates	1	N	500.00 (USD)	500.00 (USD)

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Total: 2014.85 (USD)

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\$8.77

UPS 2-Day Air

Estimated Delivery: Wed, Jan 27 By 11:00 PM

\$20.56

UPS Next Day Saver

Estimated Delivery: Tue, Jan 26 By 11:00 PM

\$32.89

UPS Next Day Air

Estimated Delivery: Tue, Jan 26 By 10:30 AM

\$44.39

US Mail - Priority Mail

Estimated Delivery: 4-7 Days Delivery

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US Mail - Priority Mail Express

Estimated Delivery: 1-2 Business Days Delivery

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ESTIMATED SHIPPING	\$18.95
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ESTIMATED TOTAL	\$318.94

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- 4 GB of internal memory and a microSD™ card slot
- 250,000 preloaded caches for paperless caching from Geocaching.com



GPSMAP 64 features a 2.6" sunlight-readable color screen that supports BirdsEye® Satellite Imagery (subscription required) and Garmin Custom Maps. Rugged and waterproof, GPSMAP 64 uses a quad helix antenna for superior reception.

Explore the Terrain

GPSMAP 64 comes with a built-in worldwide basemap with shaded relief so you can navigate anywhere with ease. With photo navigation, you can download geotagged pictures from the Internet and navigate to them.

Keep Your Fix

With its quad helix antenna and high-sensitivity, GPS and GLONASS, receiver, GPSMAP 64 locates your position quickly and precisely and maintains its location even in heavy cover and deep canyons. The advantage is clear — whether you're in deep woods or just near tall buildings and trees, you can count on GPSMAP 64 to help you find your way when you need it the most.

Add Maps

Adding more maps to GPSMAP 64 is easy with our array of detailed topographic, marine and road maps. With 4 GB of onboard memory and microSD card slot, you can conveniently download TOPO 24K and 100K maps and hit the trail, plug in BlueChart® g2 preloaded cards for a great day on the water or City Navigator NT® map data for turn-by-turn routing on roads (see maps tab for compatibility). GPSMAP 64 also supports

Related

- Manuals
- Software
- FAQs
- Garmin Custom Maps

You May Also Like



Want more features?





RX-1200i TBR with DNA Digital Laser Rangefinder

With Leupold's high performance DNA® (Digitally eNhanced Accuracy) engine, the RX-1200i allows archers to obtain True Ballistic Range® (TBR) readings to 125 yards, displayed to the nearest 1/10th yard. Rifle settings retain all of the revolutionary TBR capabilities that Leupold rangefinders are known for, with the addition of milliradian based shot-correction data. DNA's third generation signal processing significantly increases dependability on soft, non-reflective targets and provides superior ranging consistency regardless of target color. Smaller, and markedly brighter than previous rangefinders, the RX-1200i TBR is less than 4 inches long and features multiple display intensity settings. The Quick Set Menu uses on-screen prompts which makes this rangefinder exceptionally intuitive and easy to use in the field. All RX-1200i Compact rangefinders are completely weatherproof and feature multi-coated optics, selectable reticles, measurements in yards or meters, and fold-down rubber eyecups to accommodate users with or without eye glasses. Pocket-sized and packed with features, Leupold's new RX-1200i TBR with DNA makes all other rangefinders dim in comparison. Product includes Cordura® holster, lanyard, battery and complete instructions. The RX-1200i is covered by the Leupold Golden Ring® Electronics Limited Two-Year Warranty.

Model Options Starting prices are USA only, and are our Suggested Retail Price.


 +
 
 = **\$499.99**
 Product #119360
 Black/Gray

OLED Plus
Point


 +
 
 = **\$524.99**
 Product #119361
 Mossy Oak
Infinity

OLED Plus
Point

Note: Reticle images are a web simulation and not to scale. Actual reticle appearance will vary depending on scope magnification.

[More Reticle Information](#)

Downloads

[RX-1200i Rangefinder Manual](#)



Comparison Assistant



Energizer 8-Pack D
Alkaline Battery
\$11.98



Energizer 24-Pack AA
Alkaline Battery
\$13.97

Main Info

Item #	85001	231258
Model #	E95BP-8H	E91SBP24H
Reviews	***** 6 reviews	***** 52 reviews
	\$11.98	\$13.97

Attributes

Brand	Energizer	Energizer
Item Number	85001	231258
Segment	Alkaline	Alkaline
Battery Size	D	AA
Battery Voltage	1.5	1.5
Rechargeable	No	No
Package Quantity	8	24
Battery Pack Count	--	24
Battery Milliamp-Hour	--	0

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- 4th gen Intel® Core™ i7-4610M Processor (3.0 GHz, 4M cache, Upgradable to Intel® vPro™ technology) [subtract \$40.20]
- 4th gen Intel® Core™ i7-4810MQ Processor (2.8GHz, 6M cache, Upgradable to Intel® vPro™ technology) [Included in Price]
- Intel Core i5-4210M Processor (Dual Core, 3M Cache, 2.6 GHz, w/HD Graphics 4600) [subtract \$187.60]

Operating System

- Windows 7 Professional, 32-bit, English [add \$0.00]
- Windows 7 Professional, 64-bit, English [Included in Price]
- Ubuntu 12.04 Long Term Support (LTS) SP1 [subtract \$97.15]

Office Productivity Software

- No Office License Included [Included in Price]
- Microsoft® Office Home and Business 2013, English, French and Spanish [add \$186.93]
- Microsoft® Office Professional 2013, English, French and Spanish [add \$334.33]
- Microsoft® Office Professional Plus 2013, Select Plus License, ReadyWare, English [add \$20.10]

Memory

- 4GB (1x4GB) 1600MHz DDR3L Memory [subtract \$211.05]
- 8GB (2x4GB) 1600MHz DDR3L Memory [subtract \$147.40]
- 16GB (2x8GB) 1600MHz DDR3L Memory [Included in Price]

Hard Drive

- 256GB Mobility SSD [add \$180.90]
- 320GB 7200rpm Hard Drive [subtract \$26.80]
- 500GB 5400rpm Hard Drive, FIPS Opal Encrypted [add \$13.40]
- 2.5 inch 500GB Solid State Hybrid Drive [Included in Price]

- 1.0 Terabyte 5400rpm SATA Solid State Hybrid Drive [add \$33.50]
- MOD.SSDR,128,S3,7,LTN,M6S-T,E4 [add \$80.40]
- 256GB Mobility Solid State Drive, Opal Encrypted [add \$247.80]
- 1TB 7200rpm Hard Drive [add \$26.80]

Graphics

- AMD Radeon HD 8790M Graphics 2GB GDDR5 with Express Card [Included in Price]
- Intel® HD graphics 4600 [subtract \$93.13]
- AMD Radeon HD 8790M Graphics 2GB GDDR5 [subtract \$6.70]
- Intel® HD graphics 4600 with Express Card [subtract \$86.43]
- AMD Radeon HD 8790M Graphics 2GB GDDR5 with Express Card [add \$0.00]
- Intel® HD graphics 4600 [subtract \$93.13]

Optical Drive

- 8X DVD [subtract \$32.83]
- 8X DVD+/-RW [Included in Price]

Dell Battery

- 6-cell (65Wh) 3 Year Limited Hardware Warranty4 Lithium Ion battery [add \$66.33]
- 6-cell (60Wh) Lithium Ion battery with ExpressCharge™ [Included in Price]
- 9-cell (87Wh) 3 Year Limited Hardware Warranty Lithium Ion battery [add \$99.83]
- 9-cell (97Wh) Lithium Ion battery with ExpressCharge™ [add \$52.93]

Docking Stations

- None [subtract \$146.73]
- E-Port Plus, dock adds dual digital display and legacy port support, USB 3.0 [Included in Price]
- E-Port, dock for charging, digital video, and USB 3.0 / eSATA port support [subtract \$33.50]

Camera/Microphone

- Noise Cancelling Digital Array Microphone [subtract \$20.10]
- Light Sensitive Webcam and Noise Cancelling Digital Array Mic [Included in Price]
- No Webcam and No Microphone [subtract \$20.10]

Software Camera

- Software for Integrated Camera [Included in Price]
- No Camera Software add \$0.00

Adapter

- 130W AC Adapter, 3-pin [Included in Price]

Multi-Select Monitors

- Dell UltraSharp 24 Monitor - U2414H [\$258.43]

Power Cord

- US Power Cord [Included in Price]
- US Power Cord add \$0.00

LCD

- 15.6in FHD (1920x1080) Anti-Glare LED [Included in Price]
- 15.6in HD (1366x768) Anti-Glare LED [subtract \$86.43]
- 15.6inch UltraSharp FHD(1920x1080) Wide View Anti-Glare LED-backlit with Premium Panel Guarantee [add \$0.00]

15.6inch HD (1366x768) Anti-Glare LED [subtract \$86.43]

Wireless

No Wireless LAN Card add \$0.00

Intel® Ultimate®-N 6300 802.11AGN Dual Band Wi-Fi Half Mini Card [add \$26.80]

Dell Wireless™ 1506 802.11n Single Band Wi-Fi Half Mini Card [Included in Price]

Intel® Advanced -N 6235 802.11AGN Dual Band Wi-Fi + BT 4.0LE Half Mini Card [add \$13.40]

Intel® Dual Band Wireless-AC 7260 802.11AC Wi-Fi + BT 4.0LE Half Mini Card [add \$16.75]

Keyboard

Internal English Dual Pointing Keyboard [subtract \$32.83]

Internal English Backlit Dual Pointing Keyboard [Included in Price]

Antivirus | Security Software (Pre- installed)

No Security Software [Included in Price]

Security Hardware

No Dell ControlVault, No Fingerprint Reader, No Smartcard Reader & No Contactless Smartcard Reader [subtract \$19.43]

Dell ControlVault with Smartcard Reader and 54mm Express Card [Included in Price]

Dell ControlVault, Fips Fingerprint Reader, Smartcard & Contactless Smartcard Reader & Express Card [add \$80.30]

Dell ControlVault, Fingerprint Reader, Smartcard & Contactless Smartcard Reader & Express Card [add \$6.70]

Resource DVD

Resource DVD [Included in Price]

No Resource DVD [subtract \$2.01]

Intel Rapid Start and Smart Connect

Intel Rapid Start Technology add \$0.00

NO INTEL RESPONSIVE [Included in Price]

Systems Management

No Out-of-Band Systems Management [Included in Price]

Intel vPro™ Technology's Advanced Management Features [add \$20.10]

Additional Keyboard

None

Dell Multimedia Keyboard, English for Windows® 8 [add \$20.09]

Dell KM632 WL KB and MSE, US-English [add \$33.50]

Additional Mouse

None

UV Lite WM514 - Wireless Laser Mouse [add \$28.80]

Wireless Driver

Intel® Centrino® Advanced -N + WIMAX 7260 Driver add \$0.00

Dell Wireless™ 1506 802.11g/n Single Band Wi-Fi Half Mini Card Driver [Included in Price]

Intel® Centrino® Ultimate-N 6300 802.11n 3x3 Half Mini Card Driver add \$0.00

Intel® 6235 2X2 802.11n + Bluetooth 4.0 + WIDI Driver add \$0.00

No Wireless Card Driver add \$0.00

Encryption Software

No DDPE Encryption Software [Included in Price]

Dell 1TB External Hard Drive [\$86.99]

Business Essentials

Dell Kit - Dell Branded Headset UC300 [\$37.51]

Speakers, Headsets and Webcams

Logitech C615 HD Webcam [\$53.59]

Logitech H800 Wireless Headset [\$64.31]

Jabra SPEAK 510 MS - USB VoIP desktop hands-free - wireless - Bluetooth 2.0 [\$87.09]

Optical Software

No Power DVD [Included in Price]

No Optical Software for Ubuntu add \$0.00

Energy Efficient Option

No Energy Star [Included in Price]

Energy Star add \$0.00

Dell Data Protection | Encryption Security Hardwar

None

DDP|E Hardware Crypto Accelerator [add \$33.50]

Configuration Services - Hard Drive Partitioning

None

Custom Partitioning, 60GB Primary, Secondary - Remainder of Drive [add \$6.70]

Custom Partitioning, Primary - 50% of Drive, Secondary - Remainder of Drive [add \$6.70]

Custom Partitioning, Primary - 80% of Drive, Secondary - Remainder of Drive [add \$6.70]

Custom Partitioning, Primary - 90% of Drive, Secondary - Remainder of Drive [add \$6.70]

Hardware Support Services

3 Year Hardware Service with In-Home/Onsite Service After Remote Diagnosis [subtract \$153.43]

4 Year Hardware Service with In-Home/Onsite Service After Remote Diagnosis [subtract \$73.70]

5 Year Hardware Service with In-Home/Onsite Service After Remote Diagnosis [subtract \$6.70]

3 Year ProSupport with Next Business Day Onsite Service [subtract \$87.10]

4 Year ProSupport with Next Business Day Onsite Service [Included in Price]

5 Year ProSupport with Next Business Day Onsite Service [add \$73.70]

3 Year ProSupport Plus with Next Business Day Onsite Service [subtract \$10.72]

4 Year ProSupport Plus with Next Business Day Onsite Service [add \$97.15]

5 Year ProSupport Plus with Next Business Day Onsite Service [add \$185.59]

3 Year ProSupportFlex with Next Business Day Onsite & KYC Service, Fed [subtract \$89.11]

4 Year ProSupportFlex with Next Business Day Onsite & KYC Service, Fed [add \$9.38]

5 Year ProSupportFlex with Next Business Day Onsite & KYC Service, Fed [add \$91.79]

3 Year ProSupportFlex with Next Business Day Onsite & KYHD Service, Fed [subtract \$115.91]

4 Year ProSupportFlex with Next Business Day Onsite & KYHD Service, Fed [subtract \$26.13]

5 Year ProSupportFlex with Next Business Day Onsite & KYHD Service, Fed [add \$47.57]

Accidental Damage Service

None

3 Year Accidental Damage Service [add \$73.03]

4 Year Accidental Damage Service [add \$93.13]

08 ITEP Phil Darby

ITS Review Comments

GENERAL COMMENTS:

None.

COMPLIANCE WITH STANDARDS:

No comments.

INFRASTRUCTURE ISSUES:

No comments.

PRICING/COST ISSUES:

No comments.

OTHER SUPPORT ISSUES:

No comments.

SUGGESTIONS TO PROPOSER:

No comments.

For questions regarding ITS comments, please contact:

Melanie Haveard, Executive Director and CTO

ext. 2540

mhaveard@uwf.edu