



Decision Guide for the DOI Hardware BPA

Laptops

- Ultra-light - NCS
- Traveler - IBM
- Telecommuter - IBM
- Power User - IBM

Desktops

- Office Automation - Dell
- Power User/GIS - Dell
- Total GIS - Dell

Desktop or Laptop?

The Decision Process Easier than Ever!

Easy as 1, 2, 3.....

- 1.** Use Steps 1 & 2 to choose which desktop or laptop fits your needs.
- 2.** Use Step 3 as a Decision Matrix to help address your computing requirements.
- 3.** Use Step 4 as the Technical Specs for comparison purposes.

1.

Considering a Laptop?

Power Models - Are designed for users to take advantage of new technologies, mobility, and performance such as a large, bright 15 inch display, multimedia and high end graphical performance. These models are the fastest and most powerful models on the contract and are designed for the sophisticated user that needs the processing power for large applications such as database usage, or for intensive graphic applications such as mapping or 3D scientific analysis.

Telecommuter Models - Are designed to provide mobility, a large 15 inch display, good graphics, and value. This model emphasizes manageability and compatibility and is ideal for standardized deployments. It is excellent for running software application such as Word Processing, E-mail, surfing the Web, digital media for training purposes, interactive applications, accessing databases, and creating Spreadsheets and Presentations.

Traveler Models - If you are often on the move, using a notebook in the office, on the road, and in different rooms at work or home, this notebook is for you. It is designed to provide you mobility and value coupled with a choice of display and memory size. This model is great for routine information processing tasks including word processing, email, accessing data bases and applications systems.

Ultra-Light Models - If weight of a portable laptop is a high concern in your selection process, the Ultra -Light may be your selection. Consider the following; if you have a number of meetings outside your office, need to show presentations on your notebook computer, or travel extensively as part of your job, a lightweight notebook will probably best fit your needs. Although not designed as a desktop replacement, the ultra-light helps augment your computing experience.

2.

Considering a Desktop?

Office Automation Models - Are designed for users running office productivity applications such as e-mail, word processing, spreadsheets, internet applications, Power Point presentations, accessing PDF documents and graphic images. They may also be used for viewing topographic maps and static 3D figures.

Power User/GIS Models - Are designed for users that need all the capabilities of the Office Automation Desktop and the ability to perform light to medium simulation and scientific modeling. In addition, this unit will perform well for advanced graphics and lots of processing power and will be a minimum choice for those needing to work with leading-edge advanced graphics. This unit is for the Power User.

Total GIS Models - Geographic Information Systems (GIS) is a computer-based methodology for collecting, managing, analyzing, modeling and presenting geographic, or spatial data. This system is designed for the user that requires plenty of computing power to handle the high end applications and advanced graphic needs that is more than a Power User/GIS desktop can provide. The Total GIS models are intended to be used by our scientific and engineering communities that demand the most processing power offered in a desktop PC. These units are configured with dual processors with expandable options to meet the most demanding needs.

3.

Decision Matrix

Good - 😊
Better - 😐
Best - 😄
Not Recommended - 😞
N/A - Not Applicable

	Desktops			Laptops			
	Office Automation	Power User/GIS	Total GIS	Power User	Telecommuter	Traveler	Ultra-Light
	Dell GX 280	Dell GX 280	Dell 670	IBM T42P 15"	IBM R51 15"	IBM R51 14"	NCS S5 12"
1). I need a portable laptop computer.	N/A	N/A	N/A	😊	😊	😊	😊
2). I need the lightest possible portable laptop .	N/A	N/A	N/A	😐	😊	😊	😊
3). I need long battery life.	N/A	N/A	N/A	😊	😐	😐	😊
4). I need a desktop replacement alternative.	N/A	N/A	N/A	😊	😊	😊	😞
5). I want to run Office Productivity Applications such as e-mail, surfing the Web, Word Processing, spreadsheets, Presentations, etc.	😊	😊	😊	😊	😊	😊	😊
6). I want to view graphics – such as images from the internet, graphic intense PDF files, topographic maps, static 3D figures.	😊	😊	😊	😊	😊	😊	😞
7). I need to run ArcInfo and view basic and intermediate maps, diagrams and other products.	😊	😊	😊	😊	😊	😊	😞
8). I need to perform simulation and scientific modeling.	😊	😐	😊	😊	😞	😞	😞
9). I need a system to perform real time analysis and manipulation of 3D data or models; such as reservoir modeling, overburden, geo-physical and geological modeling.	😊	😐	😊	😊	😞	😞	😞
10). I need advanced graphics.	😊	😐	😊	😐	😊	😊	😞
11). I need lots of processing power.	😊	😐	😊	😐	😊	😊	😞
12). I need leading-edge advanced graphics.	😊	😐	😊	😊	😞	😞	😞
13). I need a dual-processor capable workstation.	😞	😞	😊	😞	😊	😊	😊
14). I need systems tested and certified to run high-end / CPU intense applications.	😞	😞	😊	😞	😊	😊	😊
15). What are the base costs \$\$\$?	850	1,250	2,600	2,200	1,500	1,300	1,300

4.

Technical Specifications

	UltraLight	Traveler	Telecom- muter	Power	Office Automa- tion	Power User/GIS	Total GIS
Type	Laptop	Laptop	Laptop	Laptop	Desktop	Desktop	Desktop
Mfg	NCS	IBM	IBM	IBM	Dell	Dell	Dell
Model Name	Atlas	ThinkPad	ThinkPad	ThinkPad	Optiplex	Optiplex	Precision
Model #	S5	R51	R51	T42P	GX280	GX280	670
Screen Size (inches)	12	14	15	15	separate	separate	separate
CPU Type Speed	M 1.5 - 2.0	M 1.5	M 1.6	M 1.8	P 2.8 - 3.0	P 3.0 - 3.6	X 2.8 - 2.6 2 each
Disk GB	30 - 40	60 - 80	60 - 80	80	80 - 160	160 - 250	160 - 400
RAM GB	.25 - .768	.5 - 2	1 - 2	1 - 2	.5 - 2	1 - 2	2 - 4
Weight lbs.	2.9	6	6.6	5.4	N/A	N/A	N/A
Estimated Battery Life (hours)	2.8	4.7	4	5.7	N/A	N/A	N/A
Floppy	External	Option	Option	Option	Yes	Yes	Yes
CD / DVD (see notes)	CD RW / DVD-ROM	CD RW / DVD-ROM	CD RW / DVD-ROM	CD RW / DVD-ROM	CD RW / DVD-ROM	CD RW / DVD-ROM	CD RW / DVD-ROM
Graphics Card	Integrated Intel Extreme graphics 2	32 MB Radeon 7500	32 MB Radeon 9000	128MB ATI Fire GL	64MB ATI Radeon X300 SE PCIe x16	128 MB PCIe x16	128 MB PCIe x16
Graphics Resolution	XGA 1024x768	XGA 1024x768	SXGA 1400x1050	UXGA 2048x1536	UXGA 2048x1536	UXGA 2048x1536	UXGA 2048x1536
USB 2.0	3	2	2	2	8	8	8
IEEE 1394 Firewire port	1 type B						2 each
Ethernet	10 / 100	10/100/1000	10/100/1000	10/100/1000	10/100/1000	10/100/1000	10/100/1000
Base Unit cost (Approx.)	\$1,300	\$1,300	\$1,500	\$2,200	\$850	\$1,250	\$2,600