The Decision Makers' Guide to Flat Panel Monitor Console Kits
February 2004

Which flat panel monitor is best for your business?
The IBM 17-inch 1U Flat Panel Monitor Console Kit
The NetBAY 15-inch 2U Flat Panel Monitor Console Kit

Slim, sleek and ergonomic management solutions

IBM Flat Panel Monitor Console Kits deliver solutions that help solve your critical space problems. The IBM 1U and 2U Flat Panel Monitor Console Kits allow IT professionals to administer their systems without sacrificing critical rack space. In the data center environment, floor and rack space are precious commodities. But in this constrained space, IT professionals still need a way to quickly and efficiently manage servers.

With IBM Flat Panel kits less is definitely more
Slim, sleek keyboard and monitor solutions that fit easily into the rack environment and save up to 12U[1] of rack space. IBM NetBAY racks and rack options have always given you the flexibility you need to build your system components into a lean, mean data-processing machine. What better complement to a NetBAY rack solution than a trim Flat Panel Monitor in a 1U or 2U form factor. Flat panel monitors not only save precious rack space, they consume less power and have lower heat and electromagnetic emissions lower than traditional CRT monitors.

NEW **The IBM 17-inch 1U Flat Panel Console Kit to the rescue**
When rack real estate is crucial or when only the best will do choose the IBM 1U Flat Panel Monitor Console Kit. This premier performer in the IBM flat panel monitor family provides a sleek, contoured design with integrated tray, keyboard and 17-inch monitor that's one of the most rack-dense solutions in the industry.

Its slender 1U form factor helps provide high system density, while its big, bright monitor provides a great platform from which you can control your solution. With three models available—one with a U.S. keyboard, one with Japanese keyboard, and another without a keyboard (for National Language Support)—you'll enjoy the ability to choose your desired setup and pay for only what you need. It's an ideal choice for high-density IT solutions that require a lot of time at the rack.

Highlights of the 17-inch 1U product include:
- **Unique 'clam-shell' design packs a 17" TFT and ultra-thin keyboard featuring both Track Pad and TrackPoint® into an ergonomic management platform.**
- **Allows installation of a console switch in same 1U of space**
- **Uniquely designed cable management arm provides efficient cable management**
- **Approved for preconfigured shipment in IBM NetBAY racks**
- **Supported only with the new ultra-thin PS/2 Travel Keyboards with UltraNav**

The traditional favorite - IBM NetBAY 2U Flat Panel Monitor Console Kit
Take command of your space-constrained rack installations with the affordable 2U Flat Panel Monitor Console Kit. This ready-to-deploy solution includes a monitor, keyboard, keyboard tray and flat panel mounting mechanism packaged in a compact 2U unit. This integrated package is delivered to you assembled and ready to install.

Highlights of this 2U product include:
- **Integrated solution ready to install**
- **Built using new IBM L150 15-inch flat panel display**
- **Supported only with the IBM SpaceSaver Keyboard products**
- **Ergonomically designed for ease of use**

Both the 1U and 2U kits mount on industry-standard 19" rails. To customize your solution, there are NLS keyboards available for a wide variety of languages.   Finally, both of these top performing solutions feature IBM service and support that assure you years of worry-free operation**.

** See page 4 for additional information on limited warranty.[3]

The IBM 17-inch 1U Flat Panel Monitor Kit features a sleek, contoured design with integrated tray, keyboard and monitor.

Quick Comparison

	IBM 17-inch 1U	IBM 2U
Part numbers	17231UX w/ U.S. keyboard 17231NX w/o keyboard 17231JX w/ Japan keyboard	32P1702 w/ U.S. kd 32P1703 w/ kb
Form Factor	1U	2U
Monitor size	17"	15"
Monitor design	Clam-shell	Flip back
Monitor protected when not in use?	Yes	No
Limited warranty**	3-year onsite (IBM Machine Type)	1-year[3]
Pointing device on keyboard	User selectable between TrackPoint and Track Pad	TrackPoint
Rack shippable	Yes	No
KVM mounting in same "U" of space	Yes	No
Slide length	24"	24"
Cable management arm	Yes	No
Price	17231UX $2245 17231NX $2145	32P1702 $1499 32P1703 $1399

The IBM 17-inch 1U Flat Panel Monitor Console Kit (top) and the 2U Flat Panel Monitor Console Kit (above) allow IT professionals to administer their systems without sacrificing space

Flat Panel Monitor Technical Specification

		IBM 17" 1U	IBM 15" 2U
Panel	Type	SXGA TN/TFT	TFT LCD
	Size	17"	15"
	Pixel pitch	0.264mm	0.297mm
	Brightness	270cd/m^2	250cd/m^2
	Contrast ratio	350:1	300:1
	Viewing angle	150°/125° (H/V)	120°/100° (H/V)
Scanning Frequency	Horizontal rate	30-80KHz	30-61KHz
	Vertical rate	56-75Hz	50-75Hz
	Maximum pixel rate	80MHz	80MHz
Controls		Brightness, contrast, H/V-position, coarse, fine, auto adjustment, color temperature, color control, (R/G/B gain), color reset, image reset, language select, OSD position and OSD display time	
Resolution	Maximum	1,280x1024 @ 85Hzz	1,024x768
	Native	1,280x1024 @60Hz	1,024x768
Color	Maximum	16.2 million	16 million
Signal Input	Video input	Analog RGB (0.7Vp-p)	Analog RGB (0.7Vp-p)
	Sync. type	H and V separate	H and V separate
Connector		15 Pin D-Sub	15 Pin D-Sub
Power	On working	32W maximum	30W maximum
	Off	<3W	<2W
OSD Control		English, French, Spanish, German, Italian and Russian	English, French, Spanish, German and Italian

Take command of your enterprise

Optional NLS Keyboards for the units

17-inch 1U - PS/2 Travel	Language	15-inch 2U - Space-Saver
73P3144	U.S. English	28L3644
73P3149	Danish	28L3645
73P3150	Dutch	28L3646
73P3151	French	28L3647
73P3153	German	28L3648
73P3157	Italian	28L3649
73P3166	Spanish	28L3650
73P3171	U.K. English	28L3651
73P3158	Japanese	28L3652
73P3168	Swiss	19K3831
73P3167	Swedish/Finnish	19K3832
73P3163	Portuguese	19K3833
73P3146	Belgium/U.K.	19K3834
73P3160	LA Spanish	19K3835
73P3164	Russian/Cy	19K3836
73P3152	French Canadian	28L3645
	Polish	19K3837
73P3159	Korean	
73P3147	Chinese U.S.	
73P3172	U.S. Euro	
73P3161	Norwegian	

IBM PS/2 Travel Keyboard with UltraNAV

IBM SpaceSaver Keyboard with TrackPoint

These optional NLS keyboards can be ordered with the NetBAY 1U and 2U Flat Panel Monitor Console Kits. You can combine any of these keyboards with the kits' universal power supply that operates at multiple voltages (100-240V; 50/60Hz) to create a solution for use worldwide.

The keyboards are not interchangeable between the two models.

For more information on IBM @server xSeries rack/stack/power Options

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xSeries Options   **ibm.com**/pc/us/eserver/xseries/storage
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Contact: your IBM marketing representative or IBM Business Partner

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