# IBM Personal System/2 Model 80 386

## A powerful floorstanding system with plenty of room to grow

Ideal as a LAN server or as a standalone workstation, the IBM Personal System/2® Model 80 386 has the performance and expandability you need now and in the future. Use it to service many network stations, manage file and device resources efficiently, and serve as a host gateway. Or use it as a powerful workstation for advanced graphics and imaging, multimedia or engineering/scientific applications. And because it offers exceptional room for growth, the Model 80 386 is an excellent investment for today and tomorrow.

Micro Channel® architecture and a built-in Small Computer System Interface (SCSI) combine to ensure balanced performance from the 80386™ processor, memory and file storage devices. What's more, this system can serve large information networks—it accommodates three extra fixed disk drives for up to 1.28GB of high-speed data storage. And with seven available feature card slots and the expandability offered by SCSI, the Model 80 can grow as your business grows—and deliver the performance you need along the way.



## Model 80 at work

Here are some of the ways you can put Model 80 to work for you:

- Benefit from reliable, fast file access when Model 80 acts as a network server or host gateway
- Process large engineering or scientific models and drawings with ease
- Support several applications at once even support many users—in a multitasking/multiuser environment
- Handle complex desktop publishing and/ or advanced graphics and imaging jobs
- Get exciting new multimedia capabilities with optional high-resolution graphics, video capture and stereo sound
- Manage large databases and CD reference libraries for network sharing





## Wide range of options

	Part no.2
Coprocessor	
Vizard Adapter	34F3062
Storage devices	
3.5" 1.44MB 1-inch High Diskette Drive	6451072
5.25" 1.2MB Internal Diskette Drive	6451006
5.25" 1.2MB External Diskette Drive	4869002
5.25" 360KB External Diskette Drive	4869001
30MB SCSI Fixed Disk Drive	6451045
60MB SCSI Fixed Disk Drive	6451046
320MB SCSI Fixed Disk Drive	6451108
CD-ROM Drive (internal)	6451113
External CD-ROM Drive	3510001
S157 Streaming Tape Drive (60MB, 150MB)	6157001/
7137 Streaming Tape Drive (OOMB, 130MB)	
eternal Tana Baakun Linit	6157002
nternal Tape Backup Unit	30F5279
3363 Internal Optical Disk Drive	63X4166
3363 Optical Disk Drive (-A11,-B01)	68X7946/
	63X4182
SCSI Storage Enclosure	35100V0
External Enclosure for SCSI Devices	3511003
Scanners	
3117, 3118 Scanners	3117010/
	3118010
3119 PageScanner	94X2410
Connectivity/communications	
Token-Ring Network Adapter/A	69X8138
Token-Ring Network 16/4 Adapter/A	16F1133
Token-Ring Network 16/4 Trace and Performance Adapter/A	74F5130
Adapter/A for Ethernet Networks	6451091
PC Network Baseband Adapter/A	1501223
PC Network Broadband Adapter II/A	1501222
PC Network Adapter II/A—Frequency 2	96X5647
PC Network Adapter II/A—Frequency 3	96X5648
Dual Async Adapter/A	6451013
Multi-Protocol Adapter/A	6451003
Realtime Interface Co-Processor (RIC) Multiport/2	09F1897/
	16F1820 <sup>3</sup>
RIC Portmaster Adapter/A and related features	53F2601/
	$604/607^3$
X.25 Interface Co-Processor/2	16F1858
3270 Connection	74F3465
300/1200/2400 Internal Modem/A	94X1755
300/1200 Internal Modem/A	6450349
eased Line Modem	26F1862
System 36/38 W/S Emulation Adapter/A	69X6279
Display Station Emulation Adapter/A	92X0743
System/370™ Channel Emulation Adapter/A	06F3160
	00/ 0100
Graphics and multimedia KGA Display Adapter/A	75V5007
	75X5887
mage Adapter/A	44F9914 <sup>3</sup>
Audio Capture/Playback Adapter/A	34F2784
/ideo Capture Adapter/A	34F2785
M-Motion Video Adapter/A	34F3087
Other features	ole il promone conservation.
Micro Channel SCSI Adapter	6451109
Micro Channel SCSI Adapter with cache	6451110

## IBM Personal System/2 Model 80 386 at a glance

Machine numbers	8580-A16	8580-A31			
Microprocessor					
Standard	80386	80386			
Clock speed	25 MHz	25 MHz			
Wait states	0-2	0-2			
Memory cache					
size	64KB	64KB			
Optional	80387	80387			
Clock speed	25 MHz	25 MHz			
Part number	6450607	6450607			
Bus architecture Data path	Micro Channel 32-bit	Micro Channel 32-bit			
	OZ-Bit	32-bit			
Memory (RAM)					
Standard	4MB (80ns)	4MB (80ns)			
Maximum on					
system board	8MB	8MB			
System maximum	16MB	16MB			
Integrated functions	(-A16, -A31), pointing device	a) and display port, serial port, DMA parallel port e port, keyboard port, diskette controller, clock/ cludes fixed disk support), security password feature			
Available expansion	Four 32-bit,	Four 32-bit,			
slots	three 16-bit	three 16-bit			
Diskette storage (internal)					
Standard (3.5-inch)	1.44MB	1.44MB			
Optional (3.5-inch)	2nd 1.44MB	2nd 1.44MB			
Optional (5.25-inch)	1.2MB	1.2MB			
Diskette storage					
(external)					
Optional (5.25-inch)	360KB or 1.2MB	360KB or 1.2MB			
Fixed disk storage					
Standard	160MB (16ms)	320MB (12.5ms)			
Optional SCSI		3, 160MB or 320MB internal drives			
Display modes	VGA (includes all EGA, CG				
Text	360 or 720 x 400; 9 x 16 pe	character matrix; 80 columns x 25 rows;			
	up to 16 colors				
Graphics	320 x 200 x 256 colors or 64 gray shades; 640 x 480 x 16 colors or 16 gray				
	shades; palette of 256,000				
Optional graphics	Expanded graphic modes,	including 1,024 x 768 x 256 colors, are supported vi			
		dapter 8514/A or PS/2 XGA Display Adapter/A and olution modes are supported by the PS/2 Image			
Supported displays	IBM Personal System/2 Color Displays 8512, 8513, 8514 and 8515; IBM Personal System/2 Monochrome Displays 8503, 8506, 48507, and 85084				
Supported printers/ plotters	IBM Proprinter family, IBM Quickwriter, IBM Quietwriter III, IBM ExecJet, IBM LaserPrinter family, IBM Page Printer 3812/3816, IBM 618X and 737X Color Plotters				
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable				
Power supply	242-watt	242-watt			
Operating systems	DOS 3.3 or higher, IBM Operating System/2 Standard or Extended Edition 1.2 or 1.3, AIX Personal System/2 1.2.1				
Size	Approx. 23.5"H x 6.5" W x 1 (20.6 kg)	9.0"D (597mm x 166mm x 482mm); 45.3 lbs.			

#### Why PS/2?

Here are some of the reasons why PS/2 stands out as the best solution for your business needs.

**Technological leadership** through Micro Channel architecture, integrated construction and advanced design (by combining Very Large Scale Integration and Surface Mount Technology), and SCSI support for large data storage.

**Extensive communications capabilities**—through a wide range of connectivity options—provide concurrent support for intelligent communications adapters and coprocessors, thanks to Micro Channel architecture.

**Compatibility and expandability** to protect your investment since the PS/2s you have today work with existing products and programs and with those you'll need tomorrow.

**Service and support** that provide you with everything from fast parts delivery to onsite services to system planning to 24-hour phone support—all at a competitive price.

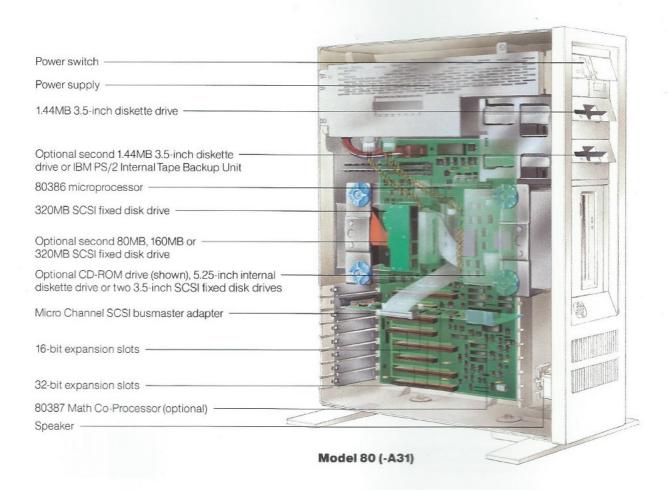
**Business Partners** who enhance PS/2 capabilities by helping customers choose, customize and configure hardware and software to meet a range of needs.

**Quality and reliability** that ensure PS/2s are built to perform smoothly and dependably year after year.

## IBM Personal System/2 Model 80 386 at a glance

Machine numbers	8580-081	8580-161	8580-321			
Microprocessor						
Standard	80386	80386	80386			
Clock speed	20 MHz	20 MHz	20 MHz			
Wait states	1	1	1			
Memory cache						
size	_	_	-			
Optional	80387	80387	80387			
Clock speed	20 MHz	20 MHz	20 MHz			
Part number	6450378	6450378	6450378			
Bus architecture	Micro Channel	Micro Channel	Micro Channel			
Data path	32-bit	32-bit	32-bit			
Memory (RAM)	4440-400-4		11.40.400			
Standard	4MB (80ns)	4MB (80ns)	4MB (80ns)			
Maximum on						
system board	4MB	4MB	4MB			
System maximum	16MB	16MB	16MB			
Integrated functions	device port, keyboar		erial port, parallel port, pointinç clock/calendar, SCSI adapter d feature			
Available expansion	Three 32-bit.	Three 32-bit,	Three 32-bit,			
slots	four 16-bit	four 16-bit	four 16-bit			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100110 011			
Diskette storage						
(internal)						
Standard (3.5-inch)	1.44MB	1.44MB	1.44MB			
Optional (3.5-inch)	2nd 1.44MB	2nd 1.44MB	2nd 1.44MB			
Optional (5.25-inch)	1.2MB	1.2MB	1.2MB			
Diskette storage						
(external)						
Optional (5.25-inch)	360KB or 1.2MB	360KB or 1.2MB	360KB or 1.2MB			
Fired disk starses						
Fixed disk storage Standard	80MB (17ms)	160MB (16ms)	320MB (12.5ms)			
		al 80MB, 160MB or 320MB				
Optional SCSI	op to triee addition	al outlib, toutlib of Szulvib	internal drives			
<b>Display modes</b> Text		GA, CGA and MCGA modes x 16 pel character matrix; 80				
Graphics	320 x 200 x 256 cold	ors or 64 gray shades; 640	x 480 x 16 colors or 16 gray			
0		56,000 colors or 64 gray sh				
Optional graphics			8 x 256 colors, are supported			
	via the optional PS/2 Display Adapter 8514/A or PS/2 XGA Display Adapter/A					
	and related features; higher resolution modes are supported by the PS/2 Image Adapter/A series					
	image Adapter/A se	nes				
Supported displays		m/2 Color Displays 8512, 85 m/2 Monochrome Displays	513, 8514 and 8515; 8503, 8506, 48507 and 85084			
Supported printers/ plotters	IBM Proprinter® family, IBM Quickwriter,® IBM Quietwriter® III, IBM ExecJet, IBM LaserPrinter family, IBM Page Printer 3812/3816, IBM 618X and 737X Color Plotters					
Keyboard	101 keys, including to	2 function keys, 3 lighted m	node indicators; 6-foot coiled			
Power supply	225-watt	225-watt	225-watt			
Operating systems	DOS 3.3 or higher IF	RM Operating System (2® S	tandard or Extended Edition 1.			
Operating systems	or 1.3, AIX® Persona	al System/2 1.2.1	teriolist of Exteriors Edition 1.			
Size	Approx. 23.5"H x 6.5	5" W x 19.0"D (597mm x 166	imm x 482mm):			
	45.3 lbs. (20.6 kg)	2 (00////// // // //				
Warranty	One-year limited wa	rranty				
	STILL YOUR INTINCU WA					

Feature	Benefit
Intel® 20 or 25 MHz, 32-bit 80386 microprocessor	Provides fast processor performance and data transfer operations
Built-in SCSI busmaster adapter card	Permits efficient file management of multiple disk drives     Lets you add up to seven SCSI-compatible devices on a single adapter
Standard memory of 4MB	Gives you plenty of workspace for programs and data
Micro Channel architecture	Provides efficient and reliable platform for multitasking environment     Enables concurrent operation of processor and busmaster functions     Allows for easy setup and reconfiguration without requiring manual switch setting
Six file storage bays	<ul> <li>Give you the ability to add a variety of internal storage devices, such as a CD-ROM, a 5.25-inch diskette drive, a tape backup device, and additional high-performance fixed disk drives</li> <li>Let you use up to four internal fixed disk drives for a capacity of over one billion bytes of data</li> </ul>
Seven available expansion slots	<ul> <li>Provide extensive system enhancement and growth capabilities for more memory, advanced graphics, special peripheral devices, communications features, and even other processor cards</li> </ul>
High-performance DASD	Enables faster access to programs and data     Works with SCSI busmaster for more balanced performance and optimized system throughput
Built-in VGA graphics	<ul> <li>Support any PS/2® analog display</li> <li>Provide 640 x 480 addressability for high-quality graphics and text</li> <li>Give you a total palette of over 256,000 colors</li> </ul>



#### **Memory matrix tables**

Memory on system board	Model 80 -081, -161, -321		1	Model 80 -A16, -A31		
Standard memory	4MB 4MB			4MB 8MB 4MB (6451060)		
Maximum memory						
System board memory expansion kits						
Number of memory kits that can be added on system board	_			1		
Memory configurations possible on system board				4MB, 8MB		
Memory options (cards)						
Memory expansion card (size) and capacity range	2-8MB	or	2-14MB	or	4-14MB	
	(6450605)		(34F3077)		(34F3011)	
Memory kits to upgrade card						
1MB kit	6450603		6450603		6450603	
2MB kit	6450604		6450604		6450604	
4MB kit	N/A		87F9977		87F9977	
Maximum number of memory kits that can be added to each memory card	3		3		3	
Maximum number of memory cards/system	2		1		1	
Maximum system memory	16MB		16MB		16MB	

Note: A minimum of 2MB of memory must be installed on the system board when using adapter 34F3077 or 34F3011.

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<sup>2</sup>Installation may require features that are not listed, such as adapters, cables and installation kits. <sup>3</sup>There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.

<sup>4</sup>Supported by PS/2 Image Adapter/A series.



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