

## Toshiba to Introduce 8-time Rotational Speed CD-ROM Drive

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TOKYO -- Toshiba Corporation today announced the worldwide introduction of an 8-time rotational speed CD-ROM drive whose data transfer rate of 1,200 kilobytes (KB) a second brings a new level of CD-ROM drive performance to desk-top personal computers.

As the large data-storage medium of choice for PCs, CD-ROM drive has become a major market, one expected to grow some 30% to over 40 million units worldwide in FY 1996. The market trend is for a rapid shift from 4-time drives to 6-time drives and beyond. Toshiba, a recognized innovator and market leader in CD-ROM drives, is supporting this transition with its new 8-time rotational speed CD-ROM drive.

The new drive, XM-5602B, achieves an average random seek time of only 130 milliseconds and a random access time of only 145 milliseconds. This high level of performance results from accelerating operation of the digital signal processor used for digital servo control, from improvement of error correction capabilities, and from an improved pick-up head and motor designed to support high speed data access. The result is stable data reads even at 8-time rotational speed.

XM-5602B also incorporates Toshiba's proven performance-improving digital servo system and variable speed playback, which starts to read data before the disc speed reaches any standard rotational rate. The power-saving capabilities of these technologies give the XM-5602B an average power consumption of only 4.8W.

The new drive incorporates an ATAPI interface and supports both PIO (Programmed Input Output) mode and DMA (Direct Memory Access) mode for burst data transfer. The latter cuts the burden on the main CPU bus and helps realize a data transfer rate of 13.3 megabytes per second.

Shipment of XM-5602B will start from today. Samples are priced at 60,000 yen in Japan.

### ● Specifications ●

<b>Model Name</b>	XM-5602B Built-in 5.25-inch half-height CD-ROM Drive	
<b>Applicable Disc format</b>	CD-DA, CD-ROM, CD-ROM XA, CD-I, CD-I Ready, CD-I Bridge (Photo CD, Video CD), Multisession (Photo CD, CD EXTRA), CD-G	
<b>MPC-3 Spec.</b>	Compliant	
<b>Interface</b>	ATAPI	
<b>Access time (8x mode)</b>	<b>Random access</b>	145ms
	<b>Random seek</b>	130ms
	<b>Full stroke access</b>	230ms
<b>Data transfer rate</b>	<b>Sustained mode</b>	1,200KB/s
	<b>Burst mode</b>	11.1MB/s (PIO) 13.3MB/s (DMA)
<b>Transfer mode</b>	PIO MODE-3 DMA Single word Mode-2, Multiple word Mode-1 CD-DA, Subcode P, Q, R-W transfer through ATAPI	
<b>Error correction</b>	Mode-1 EDC/ECC built-in, MODE-2 CD-ROM XA Form-1 EDC/ECC, Form-2 EDC built-in	
<b>Buffer memory</b>	256KB	
<b>Anti-contamination structure</b>	Sealed enclosure	
<b>Mounting orientation</b>	Horizontal: + or -20 degree Vertical: + or -10 degree	
<b>Power consumption</b>	4.8W (Average), 5.6W (Maximum)	
<b>Disc loading</b>	Tray type electrical load/eject	

<b>Audio output</b>	Headphone output (front)/ Line out and digital out (rear)
<b>MTBF</b>	100,000POH
<b>Power supply</b>	DC 5V/12V
<b>Dimensions</b>	41.5(H) x 146(W) x 190(D)mm
<b>Weight</b>	0.9kg

Information in the press releases, including product prices and specifications, content of services and contact information, is current on the date of the press announcement, but is subject to change without prior notice.

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