

Acorn Multimedia Expansion Unit



- Dual speed CD-ROM drive
- Supports both standard and double speed operation.
- State-of-the-art technology, providing insurance against future obsolescence.
- Expandable enclosure, providing a solution for all your multimedia requirements
- Two expansion bays, one 5.25" and one 3.5", enabling easy addition of Magneto Optical drives, hard disc drives, and an additional CD-ROM
- Pre-amplifier automatically mixes the various possible sound sources.

The addition of certain devices in the expansion bays may require an upgrade to the power supply within the unit. There may be a charge for this. Please contact Cumana Limited, Pines Trading Estate, Broad Street, Guildford, Surrey, GU3 3BH,

Tel: 0483 503121 for details of upgrade availability and pricing.



Connectors	
Rear	• 2 SCSI connectors (50 way centronics) • IEC power out (2A)
	 4 pairs phono connectors – computer input – pre-amp mixed out – CD-ROM direct out (one pair for fitted device, up to one additional device)
Front	 ■ mixed headphone out (*) ■ volume control ■ on/off switch
Internal	 2 5.25" front through-mounting drive bays (one fitted with supplied CD-ROM drive) 1 3.5" internal drive bay
Modes and Block Lengt	h Supported #
Modes	 CD-Digital Audio, CD-ROM (Mode 1 and Mode 2) CD-ROM XA (Mode 2, Form 1 and Form CD-I (Mode 2. Form 1 and Form 2) CD-I Ready CD-Bridge and PhotoCD (Single and Multiple session)
Block length	 CD-ROM Mode 1: 2352, 2340, 2048, 1024 and 512 Bytes CD-ROM Mode 2: 2352 and 512 Bytes CD-DA: 2448, 2368 and 2352 Bytes CD-XA: 2646, 2352 and 2048 Bytes
Data/Audio Capacity (12	20mm diameter disc)
User data capacity(1MBytes=10	000×1024 Bytes) ● > 656 MBytes, Mode 1 ● > 748 MBytes, Mode 2
Playing time	• 74 minutes and 42 seconds
Transfer Rate	
User bytes/sec (sustained) (1KBytes=1024 Bytes)	 300 KBytes, Mode 1 (Double) 150 KBytes, Mode 1 (Normal) 342.2 KBytes, Mode 2 (Double) 171.1 KBytes, Mode 2 (Normal)
Blocks/sec	• 150 (Double), 75 (Normal)
SCSI interface: – Burst rate asynchronous	• 2.5 MBytes/sec
- synchronous	• 4 MBytes/sec
Potetional speed and A	 • −530 to 230 rpm, (Normal), Variable • −1060 to 460 rpm, (Double), Variable
Rotational speed	
Average latency	● −55 to 130 msec, (Normal), Variable ● −27.5 to 65 msec, (Double), Variable
Access Time (Including	
Full stroke (first to last block)	 520 msec, (Double, typical) ≤ 900 msec, (Double, max) 550 msec (Normal, typical) ≤ 950 msec, (Normal, max)
Random (block to block)	 295 msec, (Double, typical) 360 msec (Normal, typical) <600 msec (Normal, max)
SCSI Buffer Memory	 This drive has a FIFO ring buffer managed by Controller
Standard memory size	• 256 KBytes
Spin Up, Spin Down and	Eject Time
Spin up time	● 1.5 sec, typical ● 10.0 sec, max
Spin down time	● 0.5 sec, typical ● 3.0 sec, max
Eject time	● 2.2 sec, typical ● 7.0 sec, max
User Error Rates	
Measured with 5 retries maxim ECC on at Mode 1	num ■ <10-12 Block/bit (Double) ■ <10-15 Block/bit (Normal)
ECC off at Mode 1, Mode 2	● <10-9 Block/bit (Double) ● <10-12 Block/bit (Normal)
(*) Fitted CD-ROM drives also # Additional software interface United Kingdom	o have direct output headphone socket and tied volume control es may be required Australia New Zealand
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