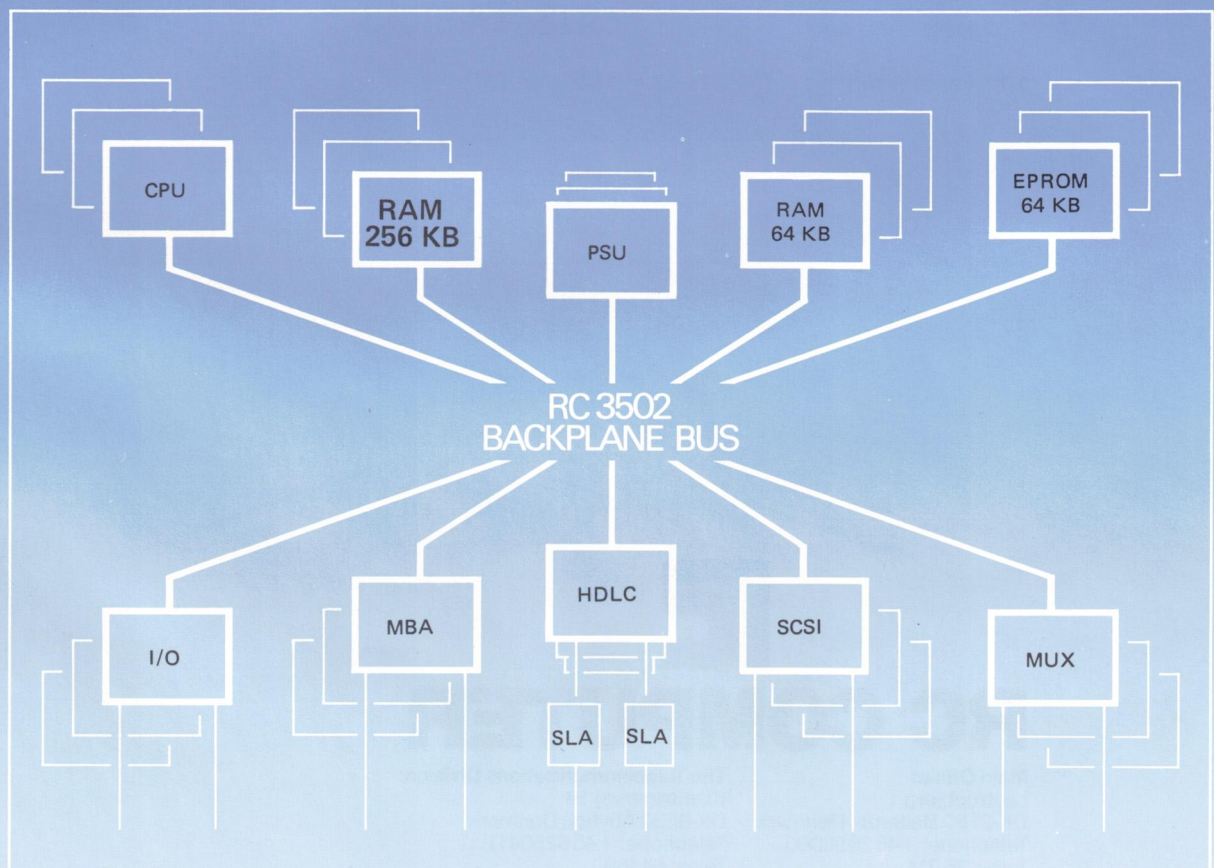


# RC3502 DATASHEET

## 256 KBYTE RAM MODULE, RC3515

- 256 Kbyte RAM
- 64 Kbyte Optional EPROM
- Multiple Bit Error Detection
- One Bit Error Correction
- Error Log
- Typical Access Time 720 ns

RC3515 is a memory module for the RC3502 computer system. It holds 256 Kbytes of dynamic RAM with error detection and one bit correction facility. An error log is provided for collecting information about detected errors. Optionally up to 64 Kbyte EPROM can also be mounted.





## 1. Specifications:

- |                            |                 |  |
|----------------------------|-----------------|--|
| 1.1 Organization:          | RAM:            | 256 Kbytes organized in 128 Kwords each with 16 data bits and 6 check bits   |
|                            | EPROM:          | Max. 64Kbytes organized in 32 Kwords each with 16 data bits, optionally  |
|                            | Error Log:      | 12 bits wide, 16 locations deep FIFO (first in first out register)   |
| 1.2 Address Area:          | RAM:            | Startaddress modulus 64 Kbytes from 80.0000 to FE.0000<br>Reduced memory size if startaddress is greater than F8.0000, i.e. max. address is FE.FFFF  |
|                            | EPROM:          | Startaddress modulus 64 Kbytes from 00.0000 to FE.0000; occupies 64 Kbytes, applicable size is from 4 Kbytes to 64 Kbytes. May be disabled by switch |
| 1.3 Access Types:          | RAM:            | Word and byte read<br>Word and byte write  |
|                            | EPROM:          | Word and byte read   |
|                            | Error Log:      | Byte read  |
| 1.4 Typical Access Timing: | RAM read:       | 720 ns   |
|                            | RAM write:      | 350 ns   |
|                            | EPROM read:     | 550 ns   |
|                            | Error log read: | 500 ns   |
| 1.5 Power Consumption:     |                 | +5V/ 4.5A max.   |
| 1.6 Heat Dissipation:      |                 | 20 kcal/h = 84 kJoule/h  |
| 1.7 Panel Width:           |                 | 15.24 mm (3T)  |



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