Basic system

The basic system comprises:

- Mother board with
  - Processor M68030
  - Floating point processor M68881
  - 4 MByte primary memory
  - One SCSI port
  - Four V.24 asynchronous channels
- Power supply
- 3.5” diskette drive
- D-NIX operating system for an unlimited number of users
- D-MENU, menu system och UNIX utilities

Use this configuration guide to select primary memory, mass storage, backup facilities and ports as required by the application.
System expansion

Memory expansion
The computer may be equipped with further primary memory. Memory modules are installed directly on the motherboard.

SCSI expansion
The computer may be equipped with an extra SCSI port to accept external hard disks and backup units.

Ethernet expansion
The computer may be equipped with an internal Ethernet port, see Configuration guide ComC.

Serial ports
The number of asynchronous channels can be expanded with terminal boards and/or terminal concentrators.

Terminal boards
The terminal board 4xV.24 is controlled directly by the main processor and handles four channels. The terminal board is installed directly on the motherboard.

Terminal concentrators
The terminal concentrator 10xV.24 has ten channels and an onboard processor. The terminal concentrator thus does not load the main processor. The terminal concentrator occupies one VME slot.

Expansion via VME
The computer can be equipped with a VME rack for flexible expansion of communication and network ports (ComC/KOM-KIT II), ports for terminals (see above) and for connection of a 1/2" tape station. The VME boards are installed from the back of the computer.

Backup units
Backup units are available in different versions, streamers, WORM, DAT, etc. The units are installed at the front of the computer.

Mass storage units
The computer should always be equipped with sufficient mass storage. Disk capacity can be expanded in steps. The hard disks are installed inside the computer.

Additional mass storage
Further mass storage and backup units can be housed in a separate SCSI-CABINET.

UPS
For maximum operating reliability, the computer should be operated with a UPS and power fail indicator.
Min/max configuration

The computer may be configured within these limits. However, certain units can not be combined freely, see page 4.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min configuration</th>
<th>Max configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary memory</td>
<td>4 MB</td>
<td>20 MB</td>
</tr>
<tr>
<td>Serial ports</td>
<td>4</td>
<td>42</td>
</tr>
<tr>
<td>Comm ports</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Network ports</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Mass storage</td>
<td>500 MB</td>
<td>3000 MB</td>
</tr>
<tr>
<td>Backup units</td>
<td>0</td>
<td>2400 MB</td>
</tr>
</tbody>
</table>

Recommendations

The graph below shows how the computer may be expanded with primary memory in different applications. The expansion, however, depends very much upon the number and types of users as well as applications running on the system.

A normal user is defined as an office automation package user while a heavy user is defined as a 4GL or database user.

About the detail configuration...

Use the matrix on page 4 to configure the system. Cross out the units required in the actual system. At the same time, cross out expansion positions used. Please note the remarks regarding minimum numbers and the remarks regarding certain limitations in numbers and combinations.
**Detail configuration**

**UNINTERRUPTIBLE POWER SUPPLY**
- POWER FAIL INDICATOR:
  - UPS 000:
    - 001-72009-00
    - 012-9650-10
- Select at least one basic system and UPS.

**MEMORY EXPANSION**
- 16 MB: 002-2035-04
- 4 MB: 002-2035-01
- Select a maximum of 1 unit.

**SCSI**
- EXTERNAL DISC:
  - 001-72955-00
  - SCSI-CABINET (SEE SEPARATE CONFIG CHART)

**ETHERNET**
- ETHERNET PORT II (SEE ConnC)

**EXPANSION, SERIAL PORTS**
- TERMINAL BOARD 4X24:
  - TERMINAL BOARD OPTO 4X24:
    - 002-5172-10
    - 002-5252-00
  - TERMINAL BOARD 4X24:
    - 002-5172-10
    - 002-5252-00
- Select a maximum of 1 unit per line.

**EXPANSION VIA VME**
- VME POSITION
  - KOM-KIT II (SEE ConnC)
  - TERMINAL CONC 10X24:
    - 001-73707-00
- Select a maximum of 1 unit per line.

**MASS STORAGE UNITS**
- EDU 500 MB:
  - 001-73616-13
  - 001-73616-15
- EDU 1000 MB:
  - 001-73616-15
  - 001-73616-17
- EDU 2000 MB:
  - 001-73616-17
- EDU 600 MB:
  - 001-73616-13
  - 001-73616-15
- EDU 1000 MB:
  - 001-73616-15
  - 001-73616-17
- Select at least 1 unit.

**BACKUP UNITS**
- EBU VIDEO:
  - 001-7366-00
  - 001-7366-00
- EBU OPTICAL DISK:
  - 001-7360-00
  - 001-7360-00
- EBU STREAMER:
  - 001-7363-00
  - 001-7363-00
Select a maximum of 1 unit per line.

*Must not be used as Boot device*
The unit comprises:

- three slots for mass storage
- three slots for backup units
- power supply

**Detail configuration**

**MASS STORAGE UNITS**

Select a maximum of 1 unit per line.

*Must not be used as Boot device*

**BACKUP UNITS**

Select a maximum of 1 unit per line.

Note that EBU Video 8 occupies 2 positions.

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