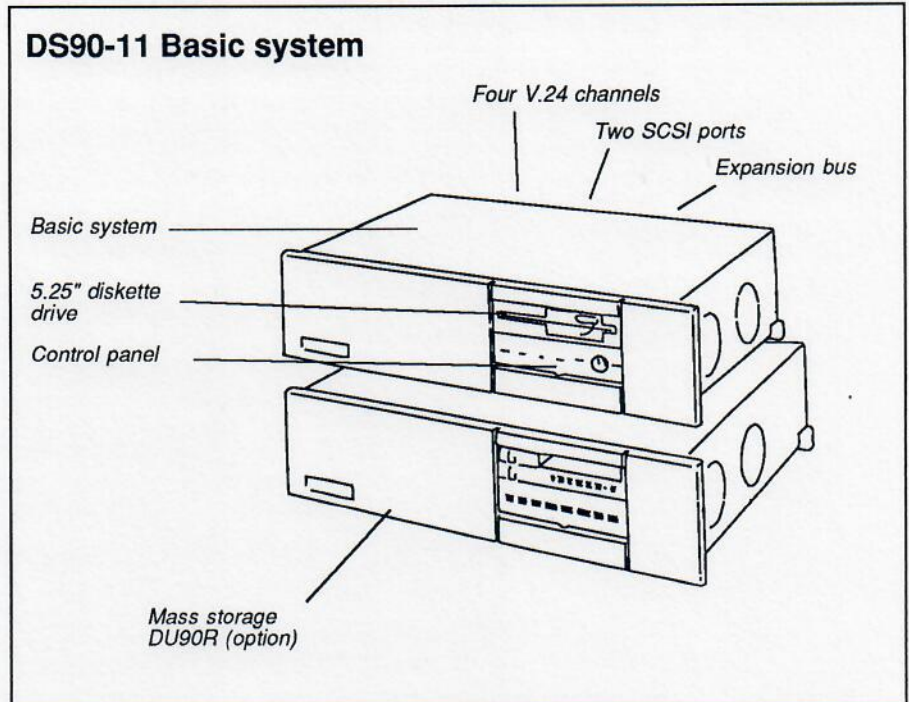


# System configuration

## DS90-11



### Basic system

DS90-11 is Diab Data's mini-computer for small to medium size applications. It is designed to meet the requirements in realtime processing and communication systems.

The DS90-11 basic system comprises:

- M68010 processor, 10 MHz
- 2 Mb primary memory with hardware ECC and floating point unit for fast calculation.
- A built in 5.25" floppy disk drive handling both 720 kByte and 1.2 MByte disks
- Two SCSI ports dedicated to expansion
- Four V.24 asynchronous channels
- D-NIX operating system for an unlimited number of users
- D-MENU, menu system and UNIX utilities
- Power unit

The basic system must work with a suitable mass storage unit for data and program storage. Please note that the DS90-11 is intended for rack installation.

- **Basic system**

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# DIAB DATA



# System expansion

## Memory expansion

One extra 2 MByte memory module can be installed. The expansion thus yields a total of 4 MByte memory.

- **Memory expansion 2 MByte**

## Disk expansion

Disk capacity can be expanded in multiples of 110, 300 and 600 MByte (formatted data). Each disk is housed in a separate 19" cabinet for rack mounting.

Six extra units (Winchester disks, backup units 2 GByte, and WORM disks) can be connected to the basic unit SCSI ports.

- **110 MB mass storage/150 MB streamer DU90R/110S**
- **300 MB mass storage/150 MB streamer DU90R/300S**
- **600 MB mass storage/150 MB streamer DU90R/600S**
- **110 MByte mass storage DU90R/110**
- **300 MByte mass storage DU90R/300**
- **600 MByte mass storage DU90R/600**

## Asynchronous channels

### Terminal board

The terminal board 4xV.24 is handled directly by the main CPU and comprises four channels. The terminal board is installed directly on the mother board. Two more such boards can be employed.

- **Terminal board 4xV.24**

## Communication and networks

### Ethernet kit

The Ethernet kit includes TCP/IP software and an Ethernet board. Transceivers and cables are not included.

An Ethernet kit occupies one of three DataBoard slots.

- **Ethernet kit**

### Communication kit

A communication kit is used in communication applications (synchronous and X.25).

A communication kit occupies one of three DataBoard slots. The system supports a maximum of three communication kits.

- **Communication kit**

## Backup units

### Backup unit 2 GByte

A tape backup unit 2 GByte stores 2 GByte on a standard tape cassette. The unit is housed in a 19" cabinet.

Six extra units (Winchester disks, backup units 2 GByte, and WORM disks) can be connected to the basic unit SCSI ports.

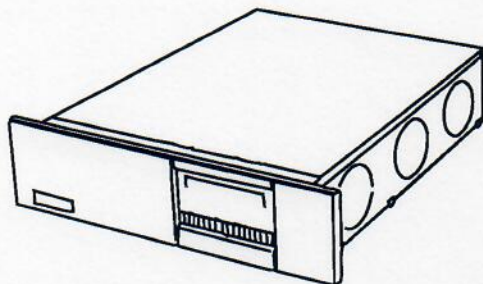
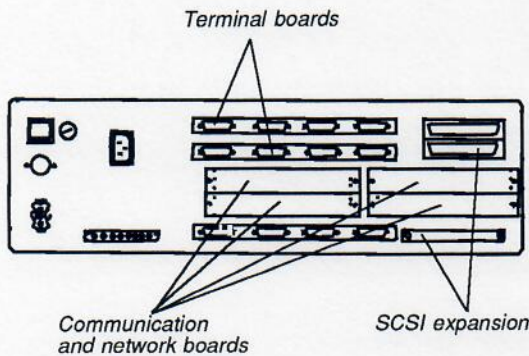
- **Tape backup unit 2 GByte BU90R**

### WORM optical disk

A WORM disk is an optical disk for permanent data storage. Written data cannot be erased. The exchangeable disk stores 390 MByte on each side. The unit has the same size and design as the basic system.

Six extra units (Winchester disks, backup units 2 GByte, and WORM disks) can be connected to the basic unit SCSI ports.

- **WORM optical disk WU90R**



Disk unit DU90R,  
backup unit 2 GByte BU90R,  
optical disk WU90R



# Configuration recommendations

Below are some guidelines as to how the DS90-11 can be expanded with memory in various applications. Configuration may vary depending on the number of users and the applications running in the system.

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

Memory	Number of users	Number of heavy users
2 MByte	1 - 8	1 - 4
4 MByte	9 - 12	5 - 8

## Typical configurations

Below are some typical DS90-11 configurations. It is assumed that the larger configurations include Ethernet and mainframe communication. DS90-11 are not limited to these configurations.

Asynchronous ports	4	8	12
Terminal boards 4xV.24	-	1	2
Memory (MByte)	2	2	2
Memory exp (MByte)	-	-	2
Disk (MByte)	110	110	300
Disk exp (MByte)	-	-	110
Streamer (MByte)	150	150	150
Backup unit 2 GByte	-	-	1
Communication kit	-	-	1
Ethernet kit	-	-	1

# Configuration DS90-11

Use these fields to configure the system for optimum performance. Please read the previous pages before going ahead.

Start by selecting one basic system, then continue with expansion units as required by the application.

1 **Basic system**

One basic system is always required

Art No	Description	Number
001-7129-00	Basic system	1

2 **Memory expansion**

The basic system can be equipped with one memory expansion

Art No	Description	Number
002-2107-00	Memory expansion 2 MByte	

3 **Terminal board**

The basic system accepts two extra terminal boards

Art No	Description	Number
002-5172-10	Terminal board 4xV.24	

4 **Communication**

Space is available for three kits.

Art No	Description	Number
001-7095-20	Communication kit (3 max)	
001-7098-20	Ethernet kit (1 max)	

5 **Disk, backup unit 2 GByte, WORM optical disk**

You can install a maximum of six units from this list. At least one unit must have a winchester disk.

Art No	Description	Number
001-7136-33	Mass storage 110 MB/150 MB str DU90R/110S	
001-7136-38	Mass storage 300 MB/150 MB str DU90R/300S	
001-7136-39	Mass storage 600 MB/150 MB str DU90R/600S	
001-7135-23	Mass storage 110 MB DU90R/110	
001-7135-28	Mass storage 300 MB DU90R/300	
001-7135-29	Mass storage 600 MB DU90R/600	
001-7141-00	Tape backup unit 2 GByte BU90	
001-7138-00	Optical disk WU90	