

## Datel Services Dataplex 2

Data can be transmitted simultaneously from a number of remote terminals to a Computer Centre at reduced cost using the Dataplex service.





## Introduction

Dataplex is a PO multiplexing service comprising multiplexors, lines and modems in one package. The service offers data transmission users reduced costs by sharing one private circuit among several remote terminals requiring to communicate simultaneously with the same computer centre. The technique used for Dataplex 2 is character-interleaved Time Division Multiplexing (TDM).

## General Facilities

The Dataplex 2 service incorporates a bearer circuit with a high speed modem and a multiplexor at each end.

The remote end of the Dataplex system is normally sited in a PO telephone exchange (see diagram), but may be in a customer's premises. Access to the Dataplex equipment is gained via Datel services on either the Public Switched Telephone Network or private speech/telegraph circuits, or on a mixture of any.

## Circuit Capacities

The data transfer rate on the main bearer circuit can be either 2400 bit/s or 4800 bit/s, depending on the high speed modem provided. Data transfer rates of 50, 75, 110, 134.5, 200, 300, 600 and 1200 bit/s can be multiplexed through the Dataplex equipment, subject to the capacity of the main bearer circuit. Different rates can be intermixed; for example, a 4800 bit/s Dataplex 2 can accommodate;

2 derived circuits at 600 bit/s plus 4 derived circuits at 300 bit/s plus 6 derived circuits at 134.5 bit/s plus 11 derived circuits at 110 bit/s.

## Features

A customer network can be expanded from a basic unit equipped for up to 16 circuits to a nationwide network comprising several integrated systems. Expansion is achieved by means of plug-in modules; thus customers are provided with equipment suited to their particular needs.

The Dataplex 2 modules are:

### Basic Unit

This is the multiplexor itself with processor, power unit, system test module and a high speed transmission system.

### Circuit Shelves

Either 16- or 32-circuit shelves can be added to the basic unit as required, up to a maximum of 64 circuits.

### Circuit Cards

included in the circuit shelf as required.

### Remote Circuit Busy

enabling busying of circuits at remote nodes to be controlled from the controlling node multiplexor – an optional extra specified for each circuit provided.

### High Speed Modems

There is a choice of 2400 bit/s or 4800 bit/s modems for the main bearer.

### Automatic Bit Rate and Code Selection (ABR)

The installation of an ABR module at a remote node provides for the automatic selection of pre-determined data rates and code levels on selected circuits.

## Diagnostics

Fault diagnostics are available on the multiplexors, enabling customers to carry out certain tests.

Networks can be arranged to include:

### Hubbing

A facility whereby the controlling node multiplexor can support up to six remote multiplexors by means of additional high speed transmission systems.

### Through Circuits

Permitting an intermediate multiplexor in a Dataplex network to pass data through without demultiplexing.

### Synchronous Intermix

Enabling a single 2400 bit/s synchronous transmission to share a bearer circuit of 4800 bit/s capacity with low speed asynchronous data.

## Costs

Dataplex 2 is available on annual rental terms with a one year term of agreement. Each module of the service has a separate rental, charges relating directly to the facilities provided.

## Availability

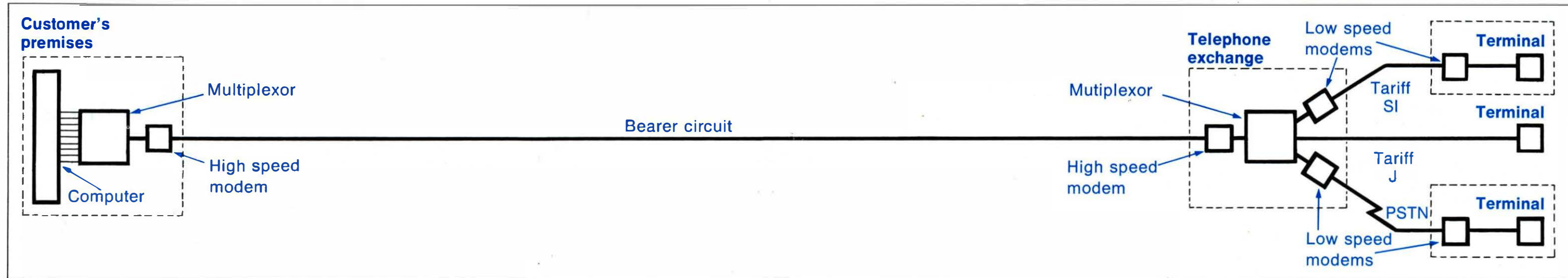
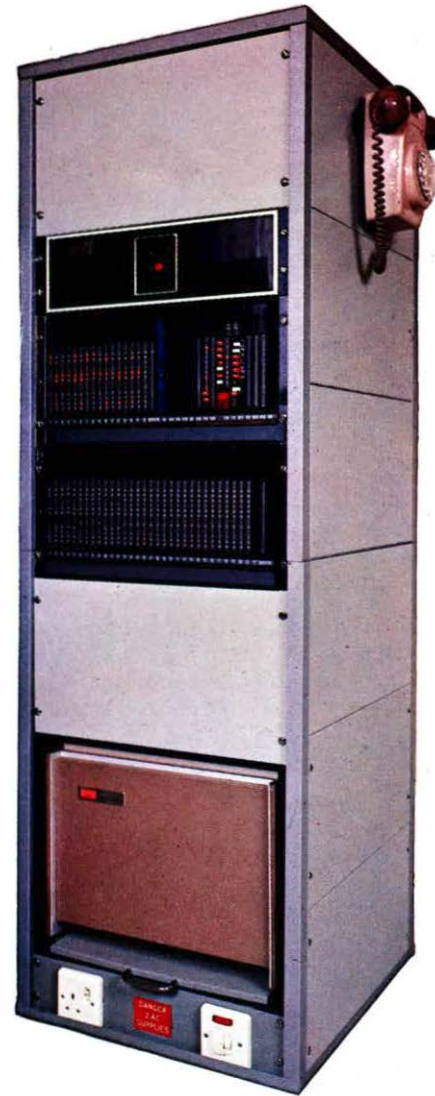
Dataplex 2 is available now. Provisioning periods will depend upon the precise facilities required.

## Accommodation

Dimensions and weights of the racking used to house the Dataplex equipment are as follows:

Height 1650mm  
Width 545mm  
Depth 545mm

The maximum distribution loading is 5.6 kPa (kilopascals) which is approx 547 kg per square metre.



## Enquiries

For more information, ring or write to the special services section of your local Telephone Sales Office. The address and telephone number are shown in the preface of your Telephone Directory.

## Notice to Customers

We do our best to supply our customers with the services they ask for, but from time to time we may have to provide apparatus which does not accord exactly with the descriptions and illustrations in this leaflet.

