

Datel Services



What does Datel do?

Datel Services provide rapid communication between computers and remote data stations. Using appropriate Post Office circuits, they allow instant access to a computer, regardless of distance.

A Datel Service includes the modulators/demodulators (modems) to translate the data into a form suitable for transmission, before presentation to the computer or terminal.

What are the benefits to business?

Computers represent enormous capital investment. A better return on that investment comes from more effective use of the computer's facilities. Datel can make these facilities available to more people in more locations.

Scientists, engineers and designers benefit increasingly from the information storage and problem-solving capabilities of powerful computers. Datel can put them on-line.

Remote offices can be linked to a central computer, saving in overheads connected with payroll, personnel and other administrative functions. Use Datel.

Over-production and storage of merchandise uses money which could be employed elsewhere. High-speed computerised production and stock control can lower operational margins – liberating capital. Datel can help to make it possible.

In a competitive business environment, up-to-the-minute management information is vital to effective decision making. The speed and accuracy of computer analysis is useful only when the information reaches the right place at the right time. Datel provides a way of doing this.

For those organisations without their own computer power, Datel can provide the link with shared computer services or time-sharing bureaux.

Every business is different; these brief examples are only an indication of the possible applications of Datel.

Which Datel service should you use?

There is a range of Datel Services to meet your requirements according to the application, speed and volume of data transmission. This leaflet describes briefly the facilities of each service.

Datel 200

Offers serial data transmission over telephone type circuits (either the Public Switched Telephone Network – PSTN – or private circuits) at a speed of 200 bit/s. In some instances speeds of up to 300 bit/s may be possible.

Duplex working is available for simultaneous incoming and outgoing transmission.

As an alternative to the full facility modem used with this service, the miniaturised Modem 13 which fits under the telephone, may be adequate for simpler applications.

Datel 600

A serial data transmission service over telephone type circuits (either private or PSTN). Two operational modes offer

- (a) Transmission at speeds up to 600 bit/s
- (b) Transmission at speeds up to 1200 bit/s

An optional 75 bit/s backward channel is available.

Datel 2400

Provides serial data transmission at a speed of 2400 bit/s over 4-wire private circuits, with an optional 75 bit/s backward channel. Alternative working over the PSTN is available, at a speed of 600 bit/s and, in many cases, 1200 bit/s.

Datel 2400 Dial Up

Provides for serial data transmission over the PSTN at 2400 bit/s. Alternative speeds of 600 bit/s and 1200 bit/s are available when the maximum speed cannot be achieved.

Datel 2412

This service combines the higher transmission speeds of the Datel 2400 and 2400 Dial Up Services, it also offers an optional backward channel at 150 bit/s. An alternative speed of 1200 bit/s is available when the maximum speed cannot be achieved on the PSTN. Test facilities are provided as a standard feature.

Datel 48K

Provides duplex transmission facilities at fixed rates of 40.8Kbit/s, 48Kbit/s, and 50Kbit/s, operating over specially engineered circuits.

International Datel Services

International Datel 200, 600 and 2400 Services provide for the transmission of data over the PSTN to most of Europe, the USA and many other countries.

Additional facilities

Automatic Calling

Data Control Equipment No. 1 (DCE 1) provides for the automatic origination of calls over the PSTN. It is available for use in conjunction with Datel 200, 600, 2400, 2400 Dial Up and 2412 Services.

Automatic Answering

Automatic answering is available as a standard facility on Datel Services. International calls using Datel 200 and 600 Services require the provision of a Data Control Equipment No. 2 (DCE 2) for automatic answering. International Datel 2400 will not require a DCE 2 as these facilities will be provided as a standard feature.

Midnight line

For a fixed annual rental, an unlimited number of STD inland calls can be made over an exchange line between midnight and 6 am. Savings may result, especially where the service is used in conjunction with automatic calling facilities (see above).

Control systems

Control systems are available for use with Datel 200, 600, 2400 and 2412 Services.

Specially equipped racks, housed in an attractive cabinet, provide the termination point for the circuits, and hold the modems, control units and other necessary equipment.

The systems are modular; as the user's needs increase, more 'building bricks' are added to it.

Where a customer uses more than one Datel Service, control systems may contain a mixture of these different services.

Racking

Racks are available to house large numbers of modems. The rack 73B-1 is enclosed in a grey cabinet with a stainless steel door, and occupies only four square feet of floor space. The number of modems mounted in the rack varies with their size, but normally 18 modems No. 2 can be fitted.

Private circuits

Multipoint Circuits for Data Transmission

In addition to point to point circuits data may also be transmitted over a multipoint circuit. This allows from two to twelve terminals to be connected to a central station and enables the transmission of data from the central station to any terminal and from terminals to the central station. Direct communication between terminals is not possible.

International data transmission

The transmission of data internationally can be arranged over privately leased circuits, whether or not the International Datel Service is available to the country concerned.

At a glance...

Service	Signal Path	Transmission Speed – bits per second	Operating Mode	Remarks
Datel 200	Public Telephone Network	200	Asynchronous	Speeds of up to 300 bit/s may also be achieved over the PSTN and private circuits.
	Private Circuit	200	Asynchronous	
Datel 600	Public Telephone Network	600	Asynchronous	Speeds of up to 1200 bit/s are also possible.
	Private Circuit	1200	Asynchronous	4 wire private circuits are required for duplex working.
Datel 2400	Private Circuit	2400	Synchronous	A four wire private circuit is required.
	Public Telephone Network (Standby)	600	Synchronous	Speeds of 1200 bit/s are also possible.
Datel 2400 Dial Up	Public Telephone Network	2400	Synchronous	Where 2400 bit/s is not possible the modem can be switched to 600/1200 bit/s.
Datel 2412	Public Telephone Network	2400	Synchronous	Over some connexions it may be necessary to switch to 1200 bit/s.
	Private Circuit	2400	Synchronous	A 4-wire private circuit is required.
Datel 48K	Wideband Circuit	40.8K 48K 50K	Synchronous	

Datel Sales Enquiry Points: Telephone Numbers

Aberdeen

Aberdeen (0224) 24009

Bedford

Bedford (0234) 52241

Belfast

Belfast (0232) 33576

Birmingham

021-262 2757

Blackburn

Blackburn (0254) 666387

Bournemouth

Bournemouth (0202) 24990

Bradford

Bradford (0274) 20974

Brighton

Brighton (0273) 202090

Bristol

Bristol (0272) 296507

Cambridge

Cambridge (0223) 61816

Canterbury

Canterbury (0227) 60034

Cardiff

Cardiff (0222) 24749

Chester

Chester (0244) 20192

Colchester

Colchester (0206) 41331

Coventry

Coventry (0203) 22905

Dundee

Dundee (0382) 302201

Edinburgh

031-345 4480

Exeter

Exeter (0392) 75030

Glasgow

041-220 2899

Gloucester

Gloucester (0452) 25451

Guildford

Aldershot (0252) 27546

International

01-432 5407

Lancaster

Lancaster (0524) 88207

Leeds

Leeds (0532) 37893

Leicester

Leicester (0533) 534111

Lincoln

Lincoln (0522) 26651

Liverpool

051-229 3961

LONDON

Centre

01-437 8060 Ext 352

City

01-921 8754

East

01-553 7228

North

01-340 8060 Ext 7143

North Central

01-829 4405

North West

01-864 4347

South

01-760 7400

South Central

01-261 4622

South East

01-290 2494

South West

01-879 2444

West

01-579 8771

MANCHESTER

Central

061-863 6438

North

061-863 8261

South

061-863 5478

Middlesbrough

Middlesbrough (0642) 248636

Newcastle upon Tyne

Newcastle (0632) 613364

Norwich

Norwich (0603) 25282

Northampton

Northampton (0604) 39171

Nottingham

Nottingham (0602) 56869

Oxford

Oxford (0865) 812312

Peterborough

Peterborough (0733) 69664

Plymouth

Truro (0872) 4224 Ext 230

Portsmouth

Portsmouth (0705) 813411

Preston

Preston (0772) 55989

Reading

Reading (0734) 52598

Scotland West

041-242 2068

Sheffield

Sheffield (0742) 732377

Shrewsbury

Shrewsbury (0743) 3388

Southampton

Southampton (0703) 33270

Southend

Southend (0702) 47099

Stoke-on-Trent

Stoke (0782) 28296

Swansea

Swansea (0792) 52870

Taunton

Taunton (0823) 87172

Tunbridge Wells

Tunbridge Wells (0892) 24511

West Midland

021-262 2609

York

York (0904) 57220

For further or up-to-date information please contact the special services representative of your Local Telephone Sales Office. The telephone number is shown above.

If you have difficulty obtaining information from the numbers listed please call the operator and ask for Freefone 2170 or dial 01-432 1813.

Your local Sales Office will be pleased to give you the Postal address of any of our area offices.

Please note

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