

A516 'DATAMATE' SPECIFICATIONS

Processor:	PIC16C54 20.00Mhz
Parallel Port:	Centronics parallel protocol
Serial Port:	Asynchronous RS-422A Baud Rate: 460,000bps RJ45 connector
Cable Type:	Simple 8 wire cable uses only 2 pairs (4 wires). Configured to PDS data pinouts 1,2,3 and 6. Pair (1, 2) are Data lines. Pair (3, 6) are Handshaking and Ground lines.
Power Supply:	9V (200mA) DC Plug Pack Plug jack: 5.5mm outer/2.5mm inner/Outer Negative.
Dimensions:	24mm x 50mm x 70mm
Weight:	55 grams

All specifications are subject to change without notice

A516 User Manual

Version 1.02

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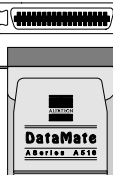


1. Product Identification


The A516 DataMate is available in three different models as follows:

A516-C  The A516-C is a Transmitter module and is normally connected to the parallel port of a PC. However it may be used from any device which has an output parallel port and is transmitting data.

The A516-C has a DB-25 male connector.

A516-P  The A516-P is a Receiver module and is normally connected to the parallel port of a printer. However it may be used from any device which has an input parallel port and is receiving data.

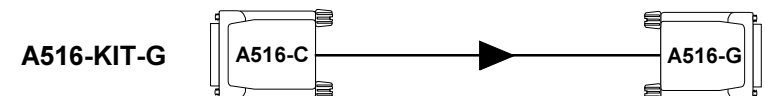
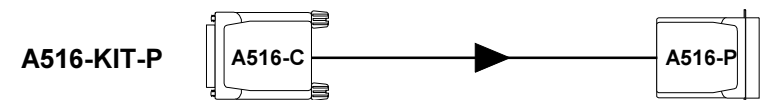
The A516-P has a 36-pin male connector.

A516-G  The A516-G is a Receiver module and is connected to the input parallel port of any device which has a DB-25 parallel port connector and is receiving data.

The A516-G has a DB-25 male connector.

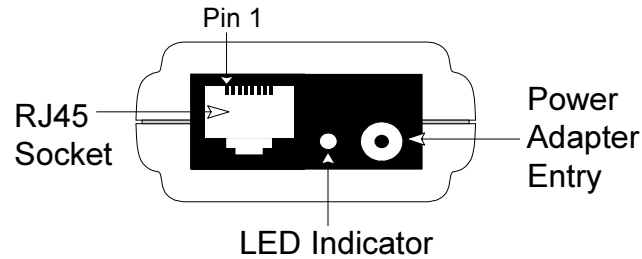
2. Product Usage

The A516 modules shown above may be used in the following configurations:



3. A516 Rear View

The A516 DataMate has all sockets and indicators located at the rear.



4. Cabling

The A516 DataMates are connected together using a straight through, pin-to-pin cable. Only 4 wires are used for communication and they conform to the Premises Distribution System (PDS) Standard. The pins used on the RJ45 connector are 1, 2, 3 and 6. The diagram below shows the standard cable for use between A516 DataMates:



The A516 DataMate will operate at full speed at a distance of up to 300 metres. Longer distances are possible depending on site conditions and cable quality.

5. Power

The A516 DataMate requires only 60mA to operate. Each unit is supplied with a power adapter so that the units can operate successfully without dependence on other equipment.

The A516-P Model will operate without a power adapter if 5 volts is available on pin 18 of the Centronics connector. A number of printers today have this feature as standard but also limit the amount of power they supply on pin 18. If any problems arise due to insufficient power then use the power adapter.

The A516-G Model will operate without a power adapter if 5 volts is available on pin 14 of the DB25 connector. If power is limited then use the power adapter.

6. LED Indicators

Model A516-C

The LED on the rear of the A516-C DataMate is used to indicate that power is being provided to the unit. If this LED is not at full intensity then the power supply should be checked. This LED has no other function.

Models A516-P and A516-G

The LED on the rear of the A516-P and A516-G models is used only to indicate data activity **between** two DataMates. When this LED is ON it means that the DataMate is ready to receive data on the RJ45 side.

This LED does **not** indicate any activity on the parallel side of the DataMate. This LED does **not** indicate that power is being provided to the DataMate.

LED Colours - the colour of the LED indicator for each device is as follows:

A516-C (Computer)	→	Green LED
A516-P (Printer)	→	Green LED
A516-G (General)	→	Yellow LED

7. Connecting to ASeries A2600 Range

The A516 DataMate may be connected directly into the A2600 range of products via the A2600-516 Card. This card will accept two A516 DataMates.

Cabling is straight through as described in paragraph 4 above.

When the port on an A2600-516 card is configured as INPUT, then an A516-C (Transmitter) must be connected to that port. When configured as an OUTPUT, then either the A516-P or A516-G (Receivers) must be connected.

8. Connecting to ASeries A2000 Range

The A516-KIT-P DataMate Kit may be used to connect a printer to an output port of an A2000/2100.

The A516-KIT-G DataMate Kit may be used to connect a computer to an input port of an A2000/2100.