GOODBURN

DATA ACQUISITION SYSTEMS

3595-4U IMP USB-SNET INTERFACE

- **Connects an IMP SNET network to a PC USB input**
- **Allows use of laptops with IMPs for the first time**
- **Internal or external IMP power supply**
- **Works with existing IDAS drivers**

SPECIFICATION

The 3595-4U interface replaces the 3595-4B and 3595-4C interface cards that were needed to allow an IMP SNET network to communicate with a host PC. The 3595-4U communicates via the PC's USB interface.

This means that, for the first time, IMPs can be interfaced with a laptop rather than a desktop computer, opening up a wide range of additional applications.

The 3595-4U will currently only function with our IDAS software and device drivers.

All communication and power connections are made via standard plugs and sockets on the front and rear panels of the 3595-4U unit.

Inputs

Power requirement :	12-24Vdc power supply (48Vdc for external IMP supply).
Power connection :	panel mounted 9 pin D sub plug.

Outputs

Output :	SNET IMP power supply - serial communication network. USB PC connection.
Output connections :	Panel mounted 9 pin D sub socket. Panel mounted USB "B" connection.

Network cable details

Cable spec :	screened single pair cable 100Ohm impedance. 12-24AWG depending on network.= length/number of IMPs.
Maximum No IMPs :	25 with internal supply. 50 with external supply.

Description

The 3595-4U interface operates from a 12-24Vdc power supply via the rear panel mounted 9 pin D subminiature plug :-

Pins 1-5 : Ground
Pins 6-9 : Positive

When driven from this supply, the interface unit can supply up to 25 IMPs on an SNET network depending on cable type and overall network length. If more IMPs, or a longer network is required an external power supply of 48Vdc should be connected. Operation is automatically switched to the external supply when a voltage over 43V is applied to the external power plug on the Interface

In order to avoid signal reflections, a network terminator is required at both ends of the SNET network. There is a built in terminator in the 3595-4U interface and two terminators are supplied with the unit.

The 3595-4U interface functions with our IDAS data acquisition software, using the existing IMP device driver. IDAS runs under Windows 2000, XP, Vista and 7 operating systems.

Operating Conditions

Temperature range :	-20 to +70ºC
Relative humidity (0 to 40ºC) :	<90%

Mechanical

Casing :	Aluminium sealed to IP55
Size (w x d x h) :	170 x 116 x 36mm
Weight :	2 Kg

Accessories

USB Cable
SNET network terminator
24VDC power supply (not included)

Panel Layout

FRONT PANEL

USB CONNECTION   OPERATION LEDS

REAR PANEL

SNET CONNECTION   POWER CONNECTION