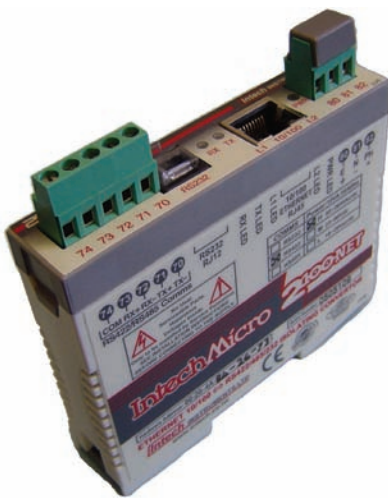# 2100-NET Ethernet Adapter

The 2100-NET brings the convenience of the Ethernet to the MicroScan system, allowing single or groups of remote stations to connect to the plant's common Ethernet network. Multiple MicroScan PC's can request data directly from the same stations.

The network can then be used for plant communications instead of the typical RS422/485 network system.

Each **2100-NET** is located in a cabinet with the remote stations and takes over the job of the **2100-IS/NS** in communicating with the stations in the cabinet. The 2100-NET can be fitted to existing systems, to take the place of the existing 422/485 data loop.
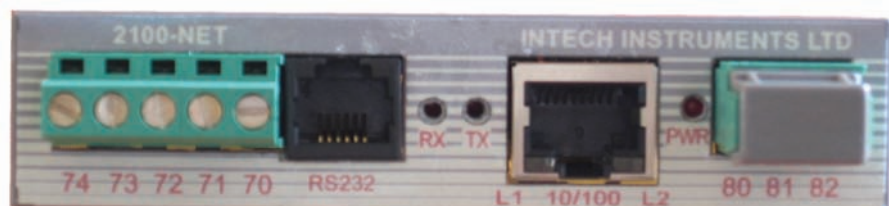
Intech Micro stations and Shimaden Controllers can be accessed in this way including; 2100-XX series stations, Shimaden, and the older IN2000 series stations. Connection between the 2100-NET module and Intech stations/Shimaden is via RS232 for one station, and RS422 or RS485 for one or multiple stations. The number of attached stations is limited by the MicroScan RS422/485 standards (400 stations on V5).

The connection is via TCP/IP. The installer assigns a static TCP/IP number and port number (default = 10001) using the port setup program. If applicable the appropriate port number has to be opened for use in the networks firewall, and can be used in 100Mbs or 10Mbs networks. Physical connection is via a RJ45 socket. Electrical isolation is provided by the 2100-NET, isolating the stations connected to the 2100-NET from the Ethernet network.

Qualified IT support personal will need to carry out the Ethernet installation and 2100-NET Ethernet configuration.

Speed of access is the same as if the stations were connected directly to the local PC, subject to network traffic. Multiple computers running the MicroScan active software can access any station.
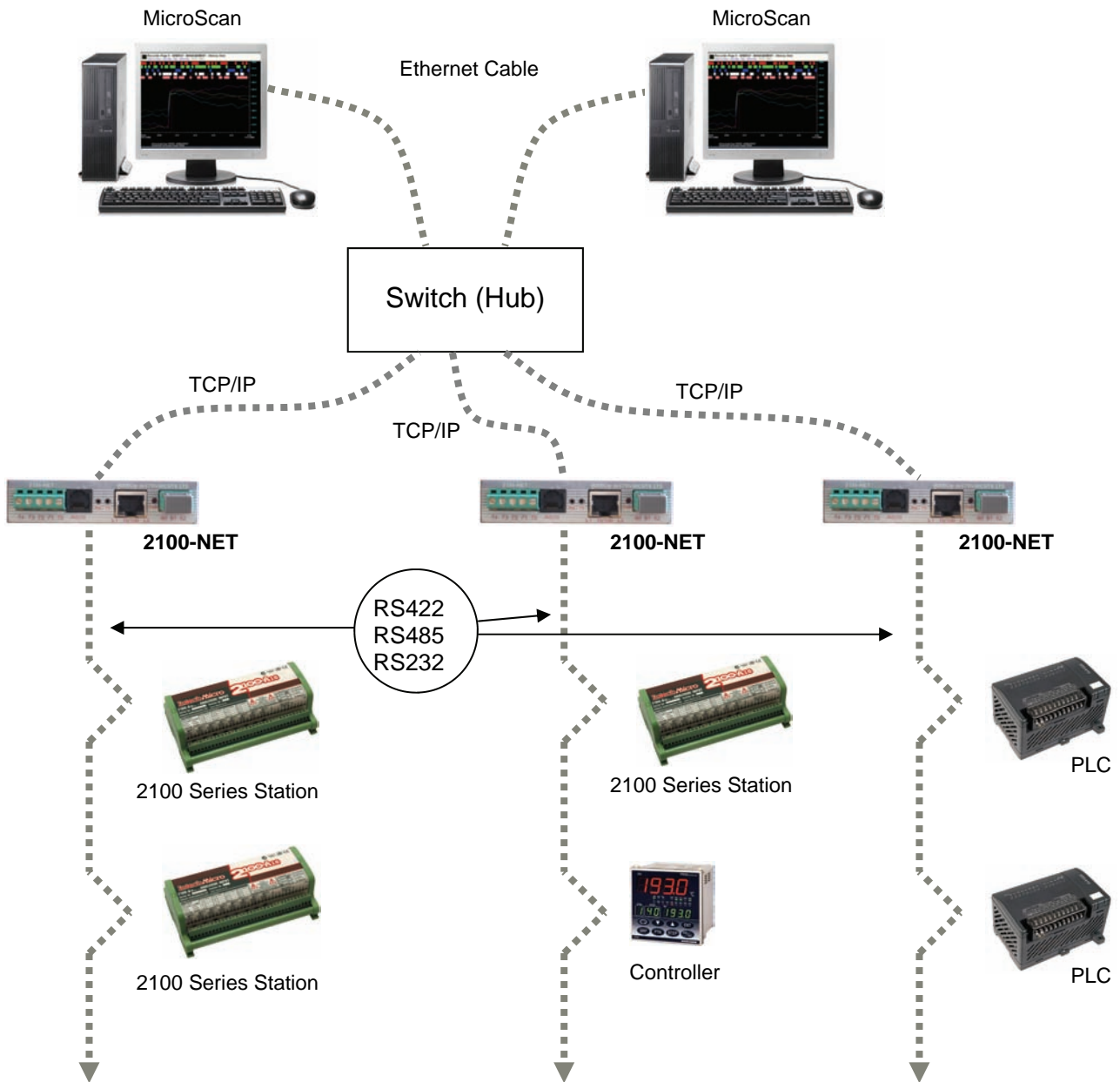
www.intech.co.nz/2100-net

2100-NET Ethernet Adapter

Connection Limit :

MicroScan V5 will connect up to four hundred 2100-NET Ethernet adaptors.

MicroScan V5 supports connection via both the 2100-NET and the PC's RS232 ports simultaneously.

Example Connection Diagram

MicroScan

MicroScan

Ethernet Cable

Switch (Hub)

TCP/IP

TCP/IP

TCP/IP

2100-NET

2100-NET

2100-NET

RS422
RS485
RS232

2100 Series Station

2100 Series Station

PLC

2100 Series Station

Controller

PLC

Some PLC's will also
connect to the 2100-NET
Check compatibility
with MicroScan