INSTALLATION GUIDE

Maxiflex Conet PNIM
Model No. M1586A

General Description

The M1586A Conet/c Programmable Network Interface Module (Conet/c PNIM) is designed add a Conet twisted pair fieldbus network to your Maxiflex system.

Introduction

This Installation Guide is intended to aid the fitment of the M1586A Conet PNIM in the field. For operating details of this product, refer to the Users' Manual. Please read this Installation Guide first before installing this unit.

In order to install, the following information must be at hand:

- The Conet node address for this unit.
- The Conet Baud rate.

Setting the Conet node address

The 8-way dipswitch, indicated in the Layout, is used to set the Conet node address. Any address, ranging from 1 to 127 may be set, as long as it is not the same as any other Conet node address in the same Conet network.

Switches 1 through 7 are used to set this address in binary format where switch 1 is the least significant bit, e.g. Address 7 means switches 1, 2 3 are ON while 4,5,6 and 7 are OFF.

Setting the Conet baud rate

Switch 8 of the 8-way dipswitch sets the Conet baud rate as follows :

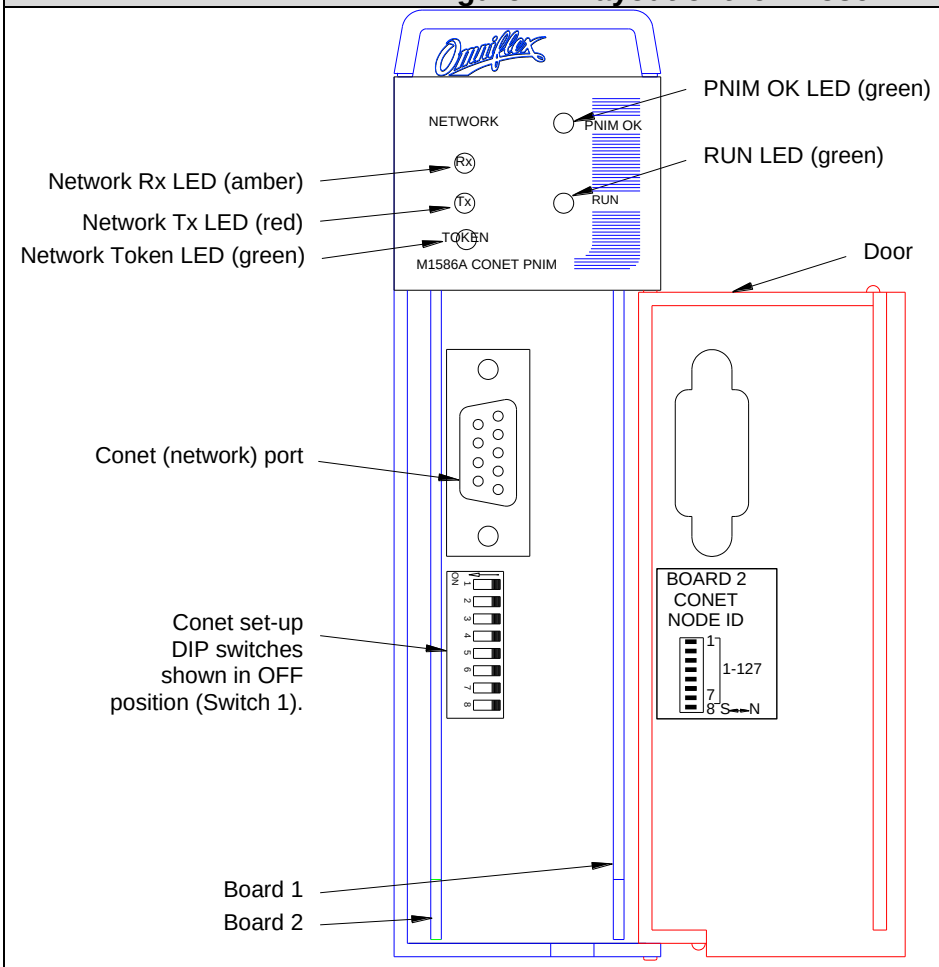
Normal Mode (62.5 kbaud) : OFF
Slow mode (7812) : ON

Pin Connections for the 9-way D- subminiature female connector

A spare 9-way D-subminiature male connector is provided to connect to the Conet network. See the table below for the applicable pinouts:

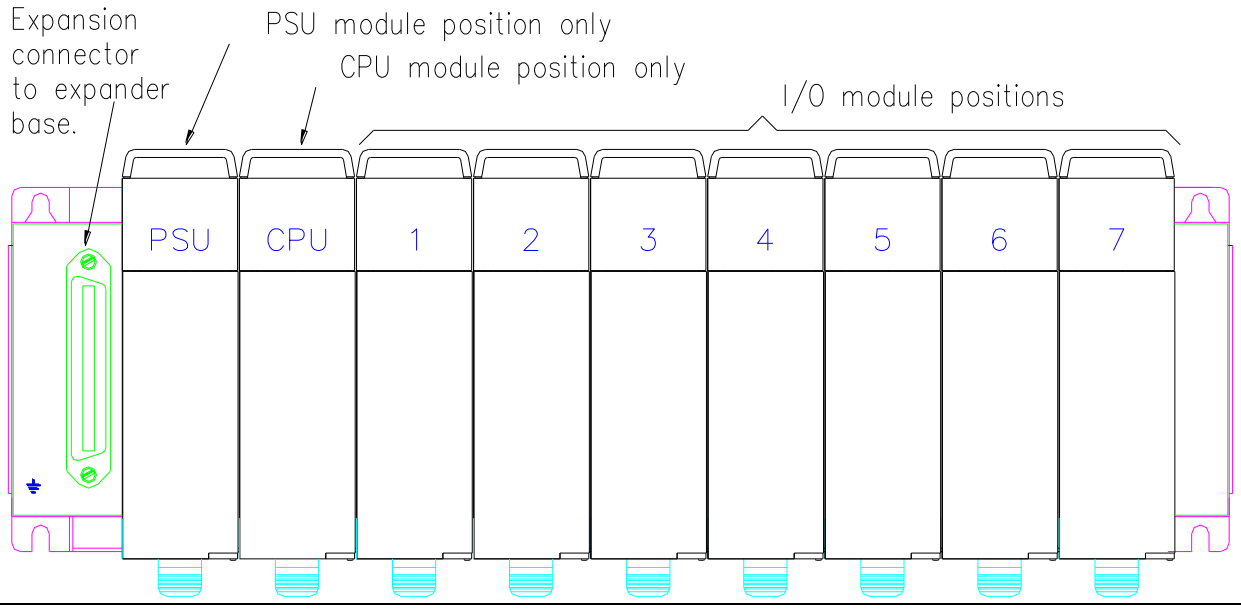
Pin Number	Description
1,2,3,4,6, 7 and 9	No connection
2	Signal +
5	Cable screen (S)
8	Signal -

Figure 1 : Layout of the M1586A



Note: The LEDs can only be seen when illuminated, as they are located behind the LED cover.

Figure 2 : Layout of the 7 I/O Master Base



Module Positioning

DAMAGE WILL RESULT TO THE EQUIPMENT IF THE CONET PNIM MODULE IS INSERTED INTO ANY POSITION OTHER THAN AN I/O SLOT ON THE MAXIFLEX BASE.

Like any other Maxiflex I/O Module, the PNIM Module is “hot-plug-in”, i.e. it may be installed or removed from any I/O slot while the system is live.

Refer to the Maxiflex Bases General Instruction (P/N 98-8952-930-00X) for more detail on base layout, module insertion and module removal.

Specifications	
Conet/c network port	
Type	Standard Conet/c Network interface
Baud Rates	Normal – 62,500 baud Slow – 7,800 baud
Maximum cable length	Up to 10 km using RS485 grade cable. (see Conet datasheet for additional information)
Connection	9 pin sub-miniature DB9 (female).
Isolation to Logic	Tested to 1500Vac
Memory	
User Program	14k EEPROM
User Variables	6k RAM
Data Interchange Table	4000 16 bit Registers
Front Panel Indicators	
PNIM OK (Green)	On = Healthy Flashing or Off = NIM faulty
RUN (Green)	On = Application Program Running Off = No application program or application program not running
Tx (Red)	On = Data is being sent out the network port.
Rx (Amber)	On = Data is being received on the network port.
Token (Green)	Flashing = Token successfully being passed between nodes on the network.
Environmental	
Operating Temperature	-25°C to +50°C (-13°F to +140°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	95% max. at 40°C (104°F) non-condensing.
Protection	Electronics conformal coated
Logic Power Consumption	
From Logic Power Supply	250mA from 5Vdc max.
Mass	
Including packaging	390g (13.8oz)
Excluding packaging	480g (16.9oz)
Ordering Information	
Description	**Order Code**
Maxiflex Conet/c PNIM	M1586A
Conet Termination Board	C6169