

## - Installation Guide -

# 3116-10 Westell DSI Network Interface Unit with Performance Monitoring

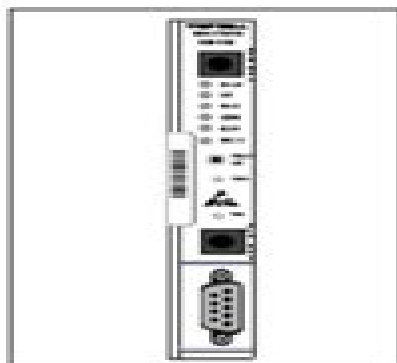


Figure 1. Front View of 3116-10 Module

## 1. GENERAL

### 1.1 Document Purpose

This document provides basic installation instructions for the Westell 3116-10 Network Interface Unit (NIU) with Performance Monitoring (PM), shown in Figure 1. Call the telephone number shown in Paragraph 3.1 for request literature #000-101522 for additional information about the 3116-10, including remote provisioning features.

### 1.2 NOTE

Read the 3116-10 and PM Network Interface Unit with Performance Monitoring user's manual on the 3116-10 and PM 3116-10.

### 1.3 Document Status

Whenever this document is updated, the reason will be stated in this paragraph. The latest B equipment revision compatibility and PM coverage from 7 to 90 days. This Revision B document replaces Figure 1.

### 1.4 Product Purpose and Description

The 3116-10 serves as an interface between a T1 span, or customer premises-based fiber multiplexer, and the extra-building Customer Premises Equipment (CPE). The 3116-10 provides standard maintenance loopback plus collecting and reporting DSI performance statistics. These performance monitoring capabilities allow service providers to "PROTECT" their "PROFIT" against facility performance degradation, thereby improving the availability of DS-Cap T1 circuits. The NIU provides a front panel that is built the width of the standard 400-wire M20 and makes electrical connections to the Facility and CPE sides of the circuit through a 50-pin cord-edge connector of the mounting assembly, using industry-standard pin assignments.

### 1.5 Product Monitoring

The NIU is a 300-MEDIANET<sup>®</sup> type module and mounts in a 20U or 40U-type shelf assembly which is usually mounted on an equipment rackboard at the customer location, after the building entrance terminal and primary protection. Westell offers both single- and multiple-site monitoring available in both local-based (local) and rack-mount versions for NIUs. In some applications, it may be desirable to obtain the NIU in outside plant cabinets or enclosures. The NIU is fully capable for operating over the temperature range of 0 to 70°C.

## 2. OPTIONS & FEATURES

### 2.1 Front Panel Features

#### 2.1.1 LEDs

Six LEDs are provided for quick, visual, circuit status indication.

LED	LED Color	LED State	STATUS-LED Description
PWR	Green	ON	Power is applied and present to the unit.
		OFF	Power not applied.
		FLICKER	Power is unstable.
L	Yellow	ON	Local loopback and ready to test the customer's facilities.
		OFF	Local loopback not active.
		FLICKER	Local loopback not active.
FAC	Green	ON	Signal is received from the facility.
		OFF	Signal not received from the facility.
M20	Red	ON	Signal from the customer to the unit is not.
		OFF	Signal from the customer to the unit is not.
CPE	Red	ON	Signal from the customer to the unit.
		OFF	Signal from the customer to the unit.
LSP	Green	ON	Local loopback and ready to test the customer's facilities.
		OFF	Local loopback not active.
M20	Green	ON	Signal from the customer to the unit.
		OFF	Signal from the customer to the unit.

The local loopback and ready to test the customer's facilities.

Table 1. Front Panel LEDs

### 2.1.2 Remote Access

Two button-type bridging jacks are provided for transmission path testing.

**For test:** For bridging the T1 signal being received from the network.

**For test:** For bridging the T1 signal being sent to the network.

### 2.1.3 Test Point Pin Jacks

Two ports, labeled TP1 and TP2, are provided for monitoring open-circuit.

**For test:** For monitoring open-circuit using a DC voltage. TP1 will read positive with respect to TP2. A voltmeter reading of 0.0Vdc indicates a 0.0Vdc open.



Figure 2. Front Panel RS-232 (DB-9) Pin-Outs

### 2.1.4 MAIN LSP Push Button Switch

The NIU loopback state can be controlled by pressing the front panel MAIN LSP push button. Deposition of the MAIN LSP push button will cycle through the loopback states.

- If depressed for 1 to 5 seconds, the LSP LED will be on solid (yellow). If released in this interval, the Network Loopback will be activated.
- If depressed for greater than 5 seconds, the LSP LED will begin blinking (yellow) at approximately 1 time per second. If released during this 5-second period, all existing loopback conditions will be deactivated.
- When first depressed, the LSP LED will go off and remain off during the first 3 seconds that the MAIN LSP is depressed. If released during this 3-second period, all existing loopback conditions will be deactivated.

### 2.1.5 DB-9 RS-232 Connector

A DB-9 RS-232 connector (Figure 2) is provided for each terminal access for setup, maintenance, performance, performance information retrieval, and direct loopback testing (see Paragraph 3.1.1 for set-up instructions).

## 3. PCB Side Panel Features

### 3.1 Option P204 - Power Source

The 3116-10 contains one hardware option, P204, which configures the unit power and which must be set on the unit or installed externally. Select either "SPNC" or "LOCAL" power, as required by the

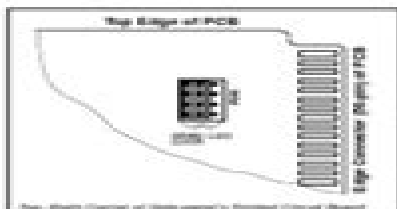


Figure 3. NIE Powering Option Location

application. This flexible powering option, shown in Figure 3, allows the unit to operate either directly from T1 signaling spans or from a locally provided 24 to 56Vdc source. When locally powered, the DC source can be negative or positive ground referenced. This allows the unit to operate from commercial 48Vdc sources as well as other +24Vdc source found in certain wireless/PCS applications.

## 3. INSTALLATION

The 200-wire 3116-10 module installs in either a 20U or 40U-type mounting or shelf assembly, as described in Paragraph 1.4. The 3116-10 should be installed according to local company practices. However, all units must be installed as described in the following steps:

- Follow Safety and ESD Precautions. Use standard proper safety and Electro-Static Discharge precautions and procedures before installation and whenever handling the module.

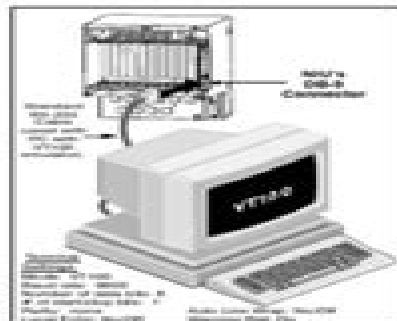


Figure 4. Preparing for Local Provisioning of NIE in Mounting Assembly



- Unpack and inspect. Openly inspect the module and visually inspect it for damage (impact damages to the shipping company and/or Westell).
- Set P204 Option.

as it will go, using just enough effort to fully-seat the edge connector for maximum electrical contact.

**CAUTION:** Do not use force when handling and inserting modules. Do not insert a module into a slot if a warning message, message, or light shows the module is not seated. The connection and electrical contact will be poor. Do not use force to insert and push the module.

**Perform Installer Connections.** The 3116-10 makes electrical connection to external equipment through a 50-pin, cord edge connector in the mounting assembly (see Figure 3 and Figure 4). No installer connections are necessary once the module is properly inserted into the shelf assembly. See Table 2 for the NIU pin-out designations.

FUNCTION	DESIGNATION	PIN
PCV IN	1	1
	2	2
M20-OUT	3	3
	4	4
M20-IN	5	5
	6	6
LSP-IN	7	7
	8	8
LSP-OUT	9	9
	10	10
LOCAL POWER	11	11
	12	12
FAC IN	13	13
	14	14

Table 2. Pin Designations

**Verify Power.** Verify the presence of power at the front panel PWR LED (see Paragraph 2.1.1).

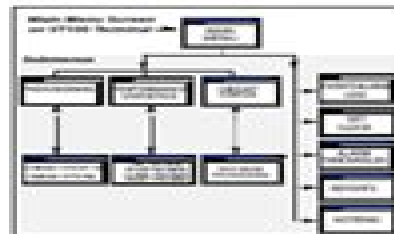


Figure 5. Main Overview

graph 4.2 for more information on initial order, and Paragraph 4.1, Figure 4, and Figure 5 for more information about using or viewing the 3116-10 menu-driven options.

## 4. SOFTWARE OPERATING/ACCESS

Software options, circuit status, performance monitoring, and event status can be accessed, viewed, and set electronically, as described hereunder. See Table 3 for a list of NIU software options and the paragraphs below for the option setting methods.

### 4.1 Optimizing Using the Menu

Use the 3116-10 menu-driven options (available settings) can be set or viewed locally by the customer to provision the unit for a particular application, to view stored T1 performance statistics, to view circuit status, or to perform system test routines, using VTI800-type menu screens.

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**Lei Huang**



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