

# **Installation Instructions**

## **AT-NT117 (AC) and AT-NT118 (DC)**

### **ADSL Mini-DSLAMs**

The following instructions provide installation procedures for the AT-NT117 (AC) and AT-NT118 (DC) ADSL Mini-DSLAMs. **Allied Telesyn strongly recommends using proper static protection techniques when installing and handling this equipment.**

## **Installation Instructions**

### **Step #1 - Unpack and inspect the AT-NT117 or AT-NT118.**

You should have the following components:

- 1) One AT-NT117 or AT-NT118
- 2) Power cord (for the AT-NT117 only)
- 3) Rubber feet (4)
- 4) Rack mount brackets (2)
- 5) Rack mount bracket screws (10)

If there is visible damage, do not attempt to connect the device; contact Allied Telesyn Technical Support for assistance.

**Step #2 - Install the Uplink Interface Module (AT-NT510, AT-NT530, AT-NT540, AT-NT550, or AT-NT560).** DO NOT POWER UP THE AT-NT117 OR AT-NT118 UNTIL AFTER THE UIM HAS BEEN INSTALLED.

Unscrew the AT-NT117 or AT-NT118 chassis, using a Phillips screwdriver and carefully lift off the top half of the chassis; set aside. Remove the blanking plate from the slot selected for the UIM (either slot may be used). Carefully position the UIM with the faceplate facing out of the vacated slot. Ensure that the connector between the UIM and the AT-NT117 or AT-NT118 is fully aligned. Secure the UIM in place with the four provided screws. Replace the chassis top and reattach with all eight screws.

### **Step #3 - Site selection**

When selecting a site for the AT-NT117 or AT-NT118, please consider the following:

- Maximum recommended ambient temperature is 65°C. Internal temperatures of rack should be considered.
- Ensure that the unit is placed in such a manner that the cables will not become a tripping hazard or become dislodged from the unit.
- Do not block power supply vents or otherwise restrict airflow when installing unit in rack.
- Mechanical loading of rack should be considered so that the rack remains stable and unlikely to tip over.
- Consideration of the overall loading of the branch circuit should be given before installing any equipment in a rack environment.
- Ensure that a reliable grounding path is maintained in the rack system. This unit is intended for a grounded connection.

For tabletop mounting, attach the rubber feet to the bottom of the unit. For rack mounting, attach the rack mount brackets to the sides of the unit at the desired position with the provided screws.

**Step #4 - Powering up the AT-NT117 or AT-NT118.** Connect power to the AT-NT117 or AT-NT118 from an appropriate power source. The AT-NT117 uses AC power. Turn on the power switch located on top of the AC inlet. Verify that the PWR LED is illuminated.

**Step #5 - Making the ADSL connection.** Plug the ADSL cable into the ADSL RJ-21 Connector on the AT-NT117 or AT-NT118. Verify the ADSL connection via the LNK LED on the front of the unit; a blinking LNK LED indicates that traffic is being received from the ADSL line.

**Note:** The distance of the copper cable between the Mini-DSLAM and the ADSL Modem will affect the linking of the ADSL connection. If the distance is greater than a particular speed will support, the units will not link up.

The AT-NT117 or AT-NT118 pinout information is as follows:

Port	DSL		Voice	
	Tip	Ring	Tip	Ring
1	26	1	39	14
2	27	2	40	15
3	28	3	41	16
4	29	4	42	17
5	30	5	43	18
6	31	6	44	19
7	32	7	45	20
8	33	8	46	21
9	34	9	47	22
10	35	10	48	23
11	36	11	49	24
12	37	12	50	25

## **Operational Modes**

The AT-NT117 and AT-NT118 support both Full Rate and G.lite operational Modes. The tables below outline the various possible speed settings for both modes.

### **Full Rate: G.DMT, T1.413 and Alcatel**

All require an in-line splitter to be installed both at the customer premise and the Central Office or wherever the IP DSLAM may be located.

Upstream (Kbps)	Downstream (Kbps)
64	128
128	256
256	512
320	768
384	1024
448	1280
512	1536
768	1792
1024	2048
1280	2304
1536	2560
	3584
	4608
	5632
	7680

## **G.lite**

Requires a microfilter at the customer premise and an in-line splitter at the Central Office or wherever the IP DSLAM may be located.

Upstream (Kbps)	Downstream (Kbps)
64	128
128	256
256	512
320	768
384	1024
448	1280
512	1536

## **Default Settings**

These default settings may be changed by using the IP (or Mini) DSLAM Network Management System (NMS); please see the NMS Users Guide for further instruction.

### **Port Mode**

Once the ADSL link has been established, it will negotiate the best data rate possible for the line before transmitting data.

### **VPI/VCI Detect ON**

Once established, the ADSL link will also configure itself to the detected VPI/VCI (Virtual Path Identifier/Virtual Channel Identifier) of packets being transmitted from the remote end station.

## **LED Indicators**

**PWR:** Steady green indicates normal operation for the entire module.

### **Per Port**

**LNK:** Pulsing green (once per second) indicates the ADSL connection is operational and the unit is receiving data packets from the remote unit on the other side of the ADSL connection. Steady green indicates the ADSL link exists but there is no traffic flow.

**RX:** Flashing amber indicates data is being received from the ADSL line.

**TX:** Flashing amber indicates data is being transmitted to the ADSL line.

## **Regulatory Compliance**

### FCC Part 15 Notice:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### Industry Canada ICES-003 Notice:

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.