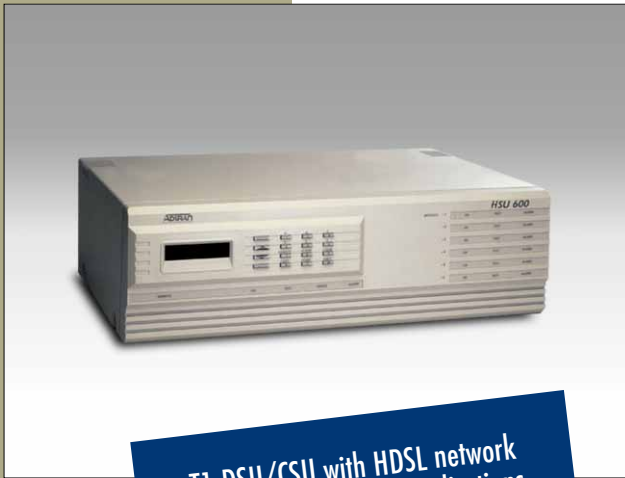# HSU 600 HDSL Service Unit

T1 DSU/CSU with HDSL network interface for campus applications

Can operate to distances of 9 kft (26 AWG) or 12 kft (24 AWG)

Provides six option slots for which there are a variety of application specific modules

Slot accepts option modules providing flexibility or path for growth

Ability to store two DSO maps and switch configurations at predetermined times

Full flexibility with bandwidth allocations

Extensive user-invoked tests

Easy-to-follow front panel menu structure or optional T-Watch software provides access to all network information
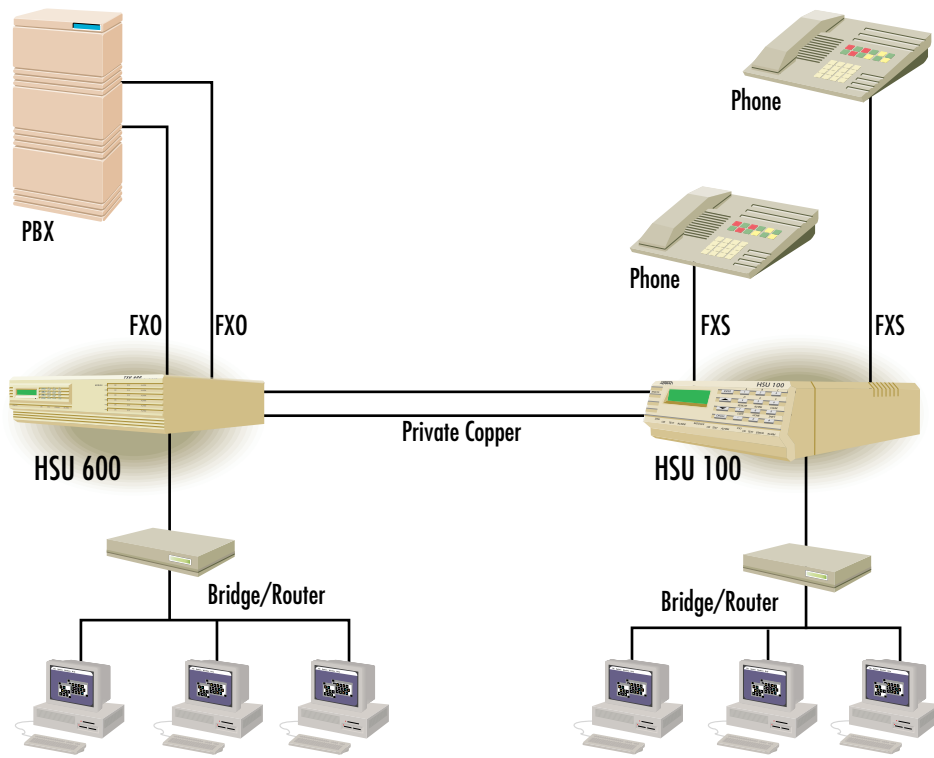
Standard 5 year warranty

The ADTRAN HSU 600 (HDSL Service Unit) is an intelligent T1-FT1 DSU/CSU with an HDSL network interface. HDSL technology has been developed as an alternative repeaterless technology for delivery of T1 services from the telcos. This same technology has applications in private campus networks. The HSU 100 with its HDSL front end is designed to interface a variety of customer data terminal equipment (DTE) to private or leased copper facilities. With the HSU 600 on each end it is possible to have T1 digital connectivity over two pairs of unconditioned copper to a distance of up to 9,000 feet over 26 AWG or 12,000 feet over 24 AWG. The HSU utilizes D4 SF or ESF framing formats with AMI or B8ZS coding. When in ESF framing mode the unit satisfies both ANSI T1.403 and AT&T 54016 modes for utilization of the Facility Data Link (FDL).

Six expansion slots are located on the rear of the unit, each of which accepts a single expansion module. A number of application specific modules are available for the HSU 600 providing flexibility and room for growth. The modules are the same set that are/will be currently available for the TSU 100/600 T1 DSU/CSUs. The modules can be combined in a variety of ways yielding a truly versatile low cost solution for campus interconnection. Modules include: Single V.35, DSX-1 (PBX), Drop and Insert, Single/Dual OCU DP, and Dual or Quad Voice.

The HSU 600 is configured using the keys and LCD display on the front panel. There is a user friendly menu structure which allows for configuration, monitoring, and testing of the HSU. An optional software package, called T-watch, is available to interface to a rear-mounted, daisy-chainable control port. The software runs on a PC under Windows.

Several built-in tests allow the user to diagnose the health of their circuit. Several local and remote network loopbacks can be invoked. The user can also select test patterns, including: 511, QRSS, and 3 in 24.

ADTRAN

PBX

FXO   FXO

HSU 600

Private Copper

Phone

Phone

FXS   FXS

HSU 100

Bridge/Router

Bridge/Router

SPECIFICATIONS

NETWORK INTERFACE

FORMAT
HDSL

LINE RATE
T1 (1.544 mbps)

PHYSICAL
RJ-48C

FRAMING
D4/ESF

CODING
AMI/B8ZS

ESF
AT&T 54016 and ANSI T1.403

DS0 ASSIGNMENT
User Selectable

T1 TRANSMIT TIMING
Loop Timed, Internal, DTE (base Nx),
by DSX-1 module (if installed)

TESTS

LOCAL
PAYLOAD/LINE

REMOTE
PAYLOAD/LINE

PATTERN
511 (Selectable DS0s)
QRSS (Selectable DS0s)

PERFORMANCE MONITOR

ERROR COUNTS
ES, SES, UAS, %AS, %EFSEC,
ALARMS, ERROR RATES

REPORTS
NI information stored for last 24
hours in 15 minute increments

PHYSICAL

SIZE
5.5" H, 12.5" D, 17.5" W

WEIGHT
13 lbs

POWER
115 VAC, 60 Hz

ENVIRONMENT

OPERATING
0°C to 45°C (32°F to 122°F)

STORAGE
-20°C to 70°C (-4°F to 158°F)

HUMIDITY
Up to 95% non-condensing

ORDERING INFORMATION

HSU 600 part number 1200098L1