

# Tellabs® 1000 Multiservice Access Platform — ADSL2+ 6+6 Plug-in Card

## Overview

The Tellabs® 1000 Multiservice Access Platform (MSAP) ADSL2+ 6+6 plug-in card is a high-performance, low-power line card for integrated voice, data and video applications. This card is designed to deliver high-speed services over one copper pair using industry standard technology.

The card provides six ports of ADSL technology and standard analog baseband lifeline POTS simultaneously on each port (6+6). The ADSL2+ 6+6 line card complies with G.992.5 (ADSL2+) and ITU-T G.992.3 (ADSL2), and is also compatible with ADSL ITU-T G.992.1 (Annex A), G.992.2 (G.Lite), and T1.413-1998 standards.

The Tellabs® 1000 MSAP ADSL2+ 6+6 plug-in card can provide bit rates up to 24 Mbps in the downstream direction and over 1 Mbps in the upstream direction. With the new higher rates, the ADSL2+ 6+6 card is ideal for supporting the triple-play of voice, video and data. The card supports ATM over TDM (AoT) and Native ATM connections and includes metallic tip-ring access for loop testing with the Metallic Test Unit (MTU) plug-in card.

The Tellabs 1000 MSAP shelf can be fully configured with the ADSL2+ 6+6, providing 120 lines per shelf. The card is fully hardened for remote cabinet and harsh environment deployments and includes power saving capability. The ADSL2+ 6+6 also supports the Reach Extended and Cabinet Mode options, and the new low-power states and loop diagnostics mode.

## General Card Features

- Six integrated ports of ADSL2+ and POTS
- Up to 22 cards per Tellabs 1000 MSAP shelf
- Dual-memory for minimal, service-affecting upgrades
- Compatible with both CPU-2 and CPU-3
- High performance provides higher bit rate and broader reach
- Low power/heat dissipation for increased capacity
- Supports G.992.5, G.992.3, G.992.2, G.992.1 and T1.413-1998 standards
- Supports ADSL2 Reach Extended (RE) option for longer reach
- Provides ADSL2 power saving states
- Supports the Cabinet Mode for CO and RT deployments to single service areas
- Up to 48 VCCs per card

- Supports Unspecified Bit Rate (UBR), Constant Bit Rate (CBR) and Variable Bit Rate, Real Time (VBRrt)
- Supports both AoT and End-to-End ATM
- Receives and responds to F5 Operations and Maintenance (OAM) loopback cells

## Specifications

### Data Rate

- Downstream: Rate adaptive up to 24 Mbps in 32 kbps increments
- Upstream: Rate adaptive up to 1 Mbps in 32 kbps increments

### Input Impedance

- 100Ω @ 30 kHz to 2.2 MHz

### Environmental

- Operating temperature: -40°C to +65°C (-40°F to +149°F)
- Relative Humidity: 5%–95% non-condensing
- Average power consumption: 15 W (typical)

### Dimensions

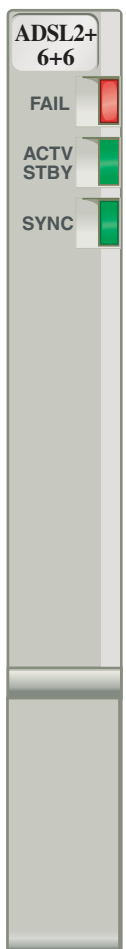
- Height: 13.018 cm (5.125 in)
- Width: 1.429 cm (0.563 in)
- Depth: 26.67 cm (10.5 in)
- Weight: 0.23 kg (0.5 lbs)

### Compliance

- TR-TSY-000057
- GR-TSY-000303
- GR-63-CORE
- GR-1089-CORE
- ANSI T1.413-1998
- G.992.1
- G.992.2
- G.992.3
- G.992.5
- G.994.1
- NEBS 3

### LED indicates the following conditions:

- Red, non-blinking FAIL — plug-in card failure or card is unable to communicate with the CPU
- Red, blinking FAIL — one or more ADSL circuits are receiving illegal signaling
- Green, non-blinking BUSY — one or more ADSL circuits are active
- Green, non-blinking SYNC — one or more ADSL circuits are enabled and trained up with the CPE



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