



Paradise Datacom PD25 Evolution Series Satellite Modem with Sat-Abis card installed

SAT-Abis is a custom interface module for Paradise Datacom Evolution and Quantum Series modems. The module is designed to interface GSM Abis links to a satellite backhaul. The design simplifies the configuration and operation of GSM backhaul.

Paradise Datacom's SAT-Abis module delivers bandwidth savings and operation savings. The majority of GSM satellite links are last mile connections to remote towns and villages. These links serve areas with sparse populations. GSM operators need a low cost solution to make these markets profitable and to meet remote access requirements.



Sat-Abis card

#### Product highlights:

- Standards Compliant 2G voice, 2.5 G Data, EDGE over Abis
- Four full/fractional E1/T1 ports
- IP ports for 3G support
- Packet multiplexing with multi level QOS
- Low packet overhead
- Removes silence packets, idle data packets and null signaling packets
- Compression >50%
- Takes no additional rack space (mounts inside Paradise Datacom Modem)
- Simplified Set-Up
- Monitor and Control merged with Satellite modem (Front Panel, Telnet, Web Browser)
- Pay for what you need - Abis optimization!
- Internal Abis monitor - Auto configuration of Abis link (Option)
- Add ports as needed - Field software upgrade

### Technical Specifications

#### **E1/Fractional E1 Specifications:**

- One to Four Port Models
- Connects directly to E1 or DS1
- Framing - CRC4, FAS or UNFRAMED
- Coding - HDB3 or AMI
- Complies with ITU-T G.703, G.704 and G.823 standards
- Rate 2.048 Mbps +/- 50 ppm
- Jitter: complies with ITU-T G.823
- Supports DS0 assignments from 1 to 31
- Not Contiguous Configuration x-y,z supported

#### **Abis E1 Over Serial Protocol:**

- TDM Over HDLC
- TRAU's Per Packet Configurable 1 to 8
- Low Latency Mode: 20 millisecond  
1 TRAU
- Max Payload Mode: 160 millisecond  
8 TRAU's

#### **Lossless Data Compression :**

- Detects silence data within each Voice Circuit
- Detects Null packets within signaling and control links
- Interconnect bandwidth is not consumed by silent data or null packets

#### **TRAU Processing**

- 256 time slots minimum

#### **LAN Network Interface: (option)**

- Four 10/100BaseT Full/Half Ethernet
- Auto negotiation or Configurable Speed and Duplex

#### **LAN Network Protocols Supported: (Option)**

- IP, TCP, UDP, ICMP, ADP, 3GoverIP
- DHCP
- DNS Address Discovery
- Dynamic DNS
- Transparent Ethernet Bridge:  
LAN1 to LAN2 -RLM Option

#### **TFTP Online Upgrade Capable (FLASH ROMs)**

#### **Regulatory:**

- Telecom TBR12, TBR13

#### **Management:**

- Modem Front Panel
- Telnet support with Edit and Paste Template Files
- Web Browser Interface
- SNMP support (MIB I, MIB II)
- Remote config., monitoring, & reset

#### **Power:**

- Provided by Modem
- Power Consumption 10W

#### **Environmental:**

- Same as host modem