



## AMBER

### DVB Digital TV Processor

**The AMBER TNM-406x, third generation of Thales' Remultiplexer and Processor, is the ideal device for operators to effectively manage digital TV programs.**

**Versatile and cost effective, AMBER combines advanced SI processing capabilities with highly integrated and powerful remultiplexing features, making it the most reliable 1RU platform on the market today.**

#### Key Benefits

- Most compact and efficient MPEG-2 remultiplexer in the industry
- Input/Output bit rates up to 180 Mbps with 1 bps accuracy
- Remultiplexing of up to 8 ASI & 7 IP/Ethernet transport streams
- Optional QPSK built-in front-ends
- Superior management of PSI/SI tables
- IP Encapsulation/de-encapsulation
- Opportunistic data insertion & MHP-ready
- DVB scrambling of selected services
- Bandwidth optimization & overflow prevention
- Easy configuration via Web/Ethernet interface or front panel keypad
- Fits into Thales' Web Network Management System, LAZULITE

# DVB DIGITAL TV PROCESSOR MANAGER

## Overview

AMBER, is a versatile, cost-effective re-multiplexer combining advanced DVB-SI processing with a wide range of functionalities.

AMBER provides service deletion, service insertion, local data insertion (SI tables, Electronic Program Guides, IP, interactive applications, etc), bandwidth optimization and output services scrambling.

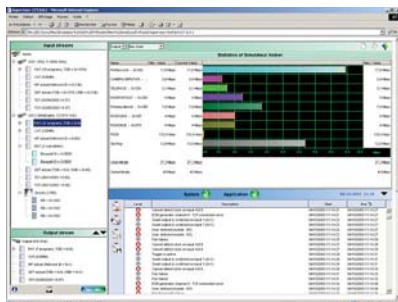
In a 1RU chassis, AMBER can host up to 8 ASI inputs, as well as 2 QPSK front-ends.

## Data Insertion/ Bandwidth Optimization

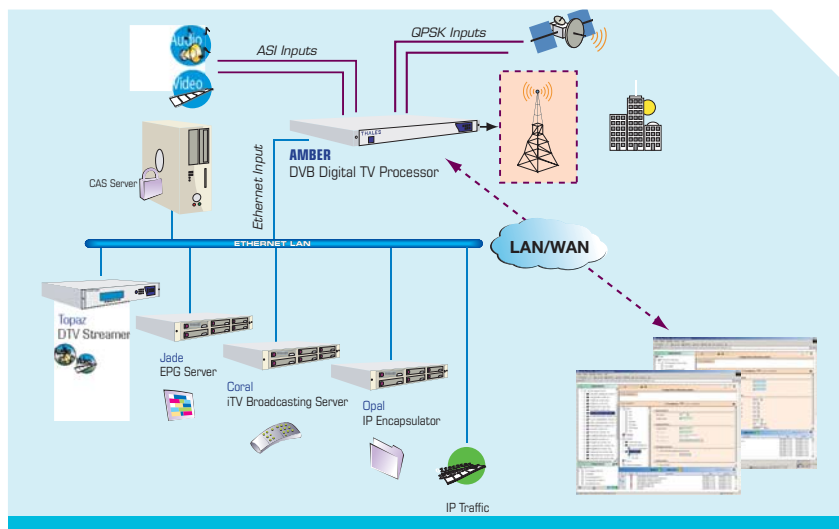
AMBER Opportunistic Data Insertion (O.D.I) allows broadcasters to optimize bandwidth control and utilization. AMBER fills the residual bandwidth with IP, or interactive data, at constant or variable bit rates, coming from Thales' IP encapsulators or iTV data servers.

AMBER performs the multiplexing of MHP applications into audio/video services, with the appropriate signaling.

AMBER also features an optional IP MPE encapsulation/de-encapsulation capability for simple datacasting and IP routing purposes.



AMBER Configuration and Supervision Software



AMBER Environment

## Multiplex Bandwidth Management & Overflow Prevention

In cases where incoming variable bit rate services are present, the operator can set priorities and identify the re-multiplexed services to be smoothed to prevent re-multiplex overflow.

## Scrambling and Conditional Access

AMBER is able to scramble selected services according to the following DVB Common Scrambling Algorithms: Fixed Key CAS, BISS 1, BISS E, and Simulcrypt.

## Advanced PSI and SI Processing

The AMBER DTV Processor enables operators to fully customize their streams, using various PSI/SI management modes: automatic generation, filtering, re-mapping, extraction of incoming transport stream tables, injection from section files, or sections generated by Thales' JADE SI Server.

## Superior Configuration & Supervision

Configuration and supervision can be easily accessed by any standard Web browser. Configuration is straightforward, using the simple drag & drop concept and an advanced statistics display.

An embedded SNMP Agent is available for centralized management of configuration and monitoring.

Additionally, AMBER fits into Thales' Web Network Management Solution, LAZULITE.

## Dynamic Configuration Changes

The AMBER configuration may be changed at any time without disturbing the rest of the multiplex. Multiple configurations can be stored on the equipment and activated via GUI, GPI, configuration scheduler, SNMP and SCTE35 in-band triggers.

## Physical Characteristics

- 19" rack, 1U high
- Redundant power supply option
- LCD screen and keypad for an easy access to AMBER parameters
- 18 LEDs for quick status detection
- Power and alarm LEDs on front panel
- Free voltage contacts

## Ordering Information

Ordering number	Description
TNM-4062-D	2 ASI inputs
TNM-4064-D	4 ASI inputs
TNM-4068-D	8 ASI inputs

Please contact Thales at the numbers below for further details on AMBER's available options.