

DVB-T2 GATEWAY





MAIN FEATURES

- **DVB-T2 MI interface to the DVB-T2 and T2 Lite Modulators**
- **Single and multiple PLP**
- **Number 4 ASI inputs**
- **Full management by SNMP, GSM/GPRS, Web, Telnet and GUI**
- **Built-in GPS/GLONASS receiver**

The Eurotek DVB-T2 Gateway allows to generate a sequence of T2-MI Packets (containing Base-Band data frames, L1 current signalling frames, STS signalling frames and Individual Addressing frames) encapsulated in a TS signal in accordance with the DVB-T2 standard transport stream transmission ETSI 302 755 v1.3.1 [1. 10]. It is possible to manage BASE-profile and LITE-profile, and each one allows to carry up to six PLPs (Physical Layer Pipe). Each PLP can be fed by an own MPEG Transport Stream(s). The Gateway is designed to support Multiple Frequency Network (MFN) and Single Frequency Network (SFN) mode. A GPS receiver allows to lock the internal reference to GPS signal for SFN synchronization.

Il Gateway Eurotek DVB-T2 genera una sequenza di pacchetti T2-MI (contenenti frame di dati in banda base, frame di segnalazione di corrente L1, frame di segnalazione STS e frame di indirizzamento individuale) incapsulati in un segnale TS secondo lo standard ETSI 302 755 v1.3.1 [1. 10]. È possibile gestire il profilo BASE e il profilo LITE, entrambi consentono la gestione fino a sei PLP (Physical Layer Pipe). Ogni PLP può essere alimentato da un proprio flusso di trasporto MPEG. L'apparato è progettato sia per supportare la modalità di rete a frequenza multipla (MFN) che quella a frequenza singola (SFN). Un ricevitore GPS integrato consente di agganciare il riferimento temporale interno al segnale GPS per la sincronizzazione SFN.

T2 Settings | **Individual Addressing**

Profile: **BASE Profile** | **LITE Profile**

L1 Pre Signalling | **Physical Layer Pipe**

T2 System

Cell ID: 1
Network ID: 3
T2 System ID: 5
Preamble Format: SISO

T2 Parameters

Bandwidth: 8 MHz
PAPR Mode: None
FFT Mode: 32k
Guard Interval: 1/16
Pilot Pattern: PP4

T2 Frame

Number of T2 Frames per Superframe: 2
Number of Data Symbols per T2 Frame: 63 [3+63]
Number of Sub-Slices per T2 Frame: 1
Duration of a T2 Frame [msec]: 243.9

PLP Used Cells | **Total Data Cells** | **Free Data Cells**

1652400 | 1658445 | 6045

BASE PLP 1 (64QAM - 3/4): 9.992 Mb/s | 10.927 Mb/s
BASE PLP 2 (64QAM - 5/6): 14.484 Mb/s | 15.599 Mb/s
BASE PLP 3: 0.000 Mb/s | 0.000 Mb/s
BASE PLP 4: 0.000 Mb/s | 0.000 Mb/s
BASE PLP 5: 0.000 Mb/s | 0.000 Mb/s
BASE PLP 6: 0.000 Mb/s | 0.000 Mb/s
LITE PLP 1 (QPSK - 3/4): 1.511 Mb/s | 1.697 Mb/s
LITE PLP 2: 0.000 Mb/s | 0.000 Mb/s
LITE PLP 3: 0.000 Mb/s | 0.000 Mb/s
LITE PLP 4: 0.000 Mb/s | 0.000 Mb/s
LITE PLP 5: 0.000 Mb/s | 0.000 Mb/s
LITE PLP 6: 0.000 Mb/s | 0.000 Mb/s

Clear Changes | **Apply**

TECHNICAL SPECIFICATION

Specification and characteristics are subject to change without notice

INPUTS / OUTPUTS FEATURES	
Inputs	4 SFP + 3 Internal + 2 Internal 1 pps Reference
Input Stream Type	ASI 188 Byte and 204 Byte terminated ASI/SMPTE/SDI/GbE
Output	
Output Stream Type	ASI ISO/IEC 13818-1, EN 50083-9:2002 SMPTE SMPTE 310M-2010 GbE IEE 802.3
Inputs	1-216 Mbit/s
SMPTE Features	8VSB (19,39 Mbit/s) 16VSB (38,78 Mbit/s)
GbE Features	1000 BASE-T over Copper 1000 BASE-SX over Optical Fiber 1000 BASE-LX over Optical Fiber
Internal Data-Rate	1-270 Mbit/s
GATEWAY FEATURES	
DVB-T2	DVB-T2 Standar ETSI 302 755 v 1.3.3 compliant MFN/SFN (Relative emission time mode) Multi PLP (up to 12 PLPs, 6 BASE PLPs + 6 LITE PLPs) SISO/MISO BASE and LITE profile
CLOCK REFERENCES	
Inputs	1 External Input for GPS signal 1 Internal Input for 1pps Reference signal
Output	1 Internal Output for 1pps Reference signal
GPS Connection	Antenna supply Voltage = 5V Max. allowed current = 50 mA Input impedance = 75 Ohm Connector = F FEMALE
CLIMATIC CONDITIONS	
Temperature	- 5°C/+45°C
Humidity	Max. 90%
Altitude	3000m 66kPa

EUROTEK SOFTWARE SUITE

