



# EMAA

## DVB-T & DVB-H TRANSMITTER, RE-TRANSMITTER AND GAPFILLER

**Based on a partnership with the European expert in DVB, Teamcast, the ECRESO EMAA transmitter and re-transmitter ranges designed to answer the needs of the most demanding technical requirements.**

**Using the Audemat-Aztec** know-how in monitoring and remote control, all transmitter and re-transmitter solutions integrate as a standard a powerful monitoring module. In 1+1 mode for example, every transmitter can monitor each other without need of additional external monitoring module.

### EMAA, major strengths

- Modular offering.
- EMAA Zecho.
- 1+1 configuration.
- Global monitoring solution.

**All these points** make the EMAA range an exceptional price/quality ratio. To prove its reliability, the whole EMAA transmitter and re-transmitter range is 3 years guaranteed.



### EMAA, the latest technology for DVB transmission

EMAA is a complete range of low power transmitters/repeaters for DVB-T and DVB-H. (0,5 Watts to 200 Watts).

EMAA exists in various versions:

- **Transmitter**
- **Re-transmitter**
- **Gapfiller**
- **Transposer**

EMAA uses the latest advanced technology which surpasses the performance of traditional designs, in particular in the area of retransmission.

EMAA achieves this by integrating, on the one hand, the advanced technology developed by TEAMCAST and, on the other hand, the industrial Broadcast experience and competence of Audemat-Aztec, TEAMCAST manufactures receiver and modulator modules for DVB-T and DVB-H which are becoming the industry references of the market.

Audemat-Aztec is the world n°1 in the field of monitoring and remote control (GOLDENEAGLE FM, AM, analog TV, DVB-T, HD Radio...).

We have extensive experience in the development and deployment of reliable transceiver devices.

### EMAA, MPEG regeneration at the price of the traditional Gapfiller

The main attractions of this technical choice are:

EMAA can integrate functions of MPEG regeneration in GAPFILLER. type of products.

- In Band signal corrections (improved MER, BER, Spectrum)

- No more fading from the transmission channel
- Phase noise improvement

The economic advantages are immediate:

This exclusive '**ZERO ECHO**'

function is much more powerful than traditional echo cancellation.

- The quality of the signal resulting from EMAA Zecho makes it possible to cover areas 20 to 30% larger than standard Gapfiller products and traditional relay transmitters.

- The number of products in cascade is almost unlimited contrary to the traditional Gapfiller products and relay transmitters in which impairments build up.

- This performance is reached at the price of traditional Gapfiller. (\*)

Note: Gapfiller Zecho is isofrequency but not synchronisable for SFN working. So we offer two Gapfiller products in our Range: EMAA Zecho and EMAA SFN which is a traditional single frequency network gapfiller with echo cancellation

### EMAA, a coherent range for an optimized budget

All the DVB-T/H products of EMAA range are built from the same tested components and software base.

- You take advantage of economies of scale
- You reduce the costs of maintenance, you reduce the number of spare parts to be stored
- The technical support is easier
- All products exhibit the same high reliability

# EMAA

All the products of EMAA range integrated Webbased monitoring functions and are interfaced via IP/SNMP protocols with a single GOLDENEAGLE / IP2CHOICE/EMAA monitoring network ...

- You take advantage of a single monitoring network.
- You can use the "Broadcast MANAGER" (software for centralizing alarms and configuring equipment) in order to manage all your equipment.
- The other transmitters having functionalities IP/SNMP can also be managed with the "Broadcast MANAGER".
- Access to the information you want is simple and ubiquitous.

## EMAA, high performances transmitters & repeaters

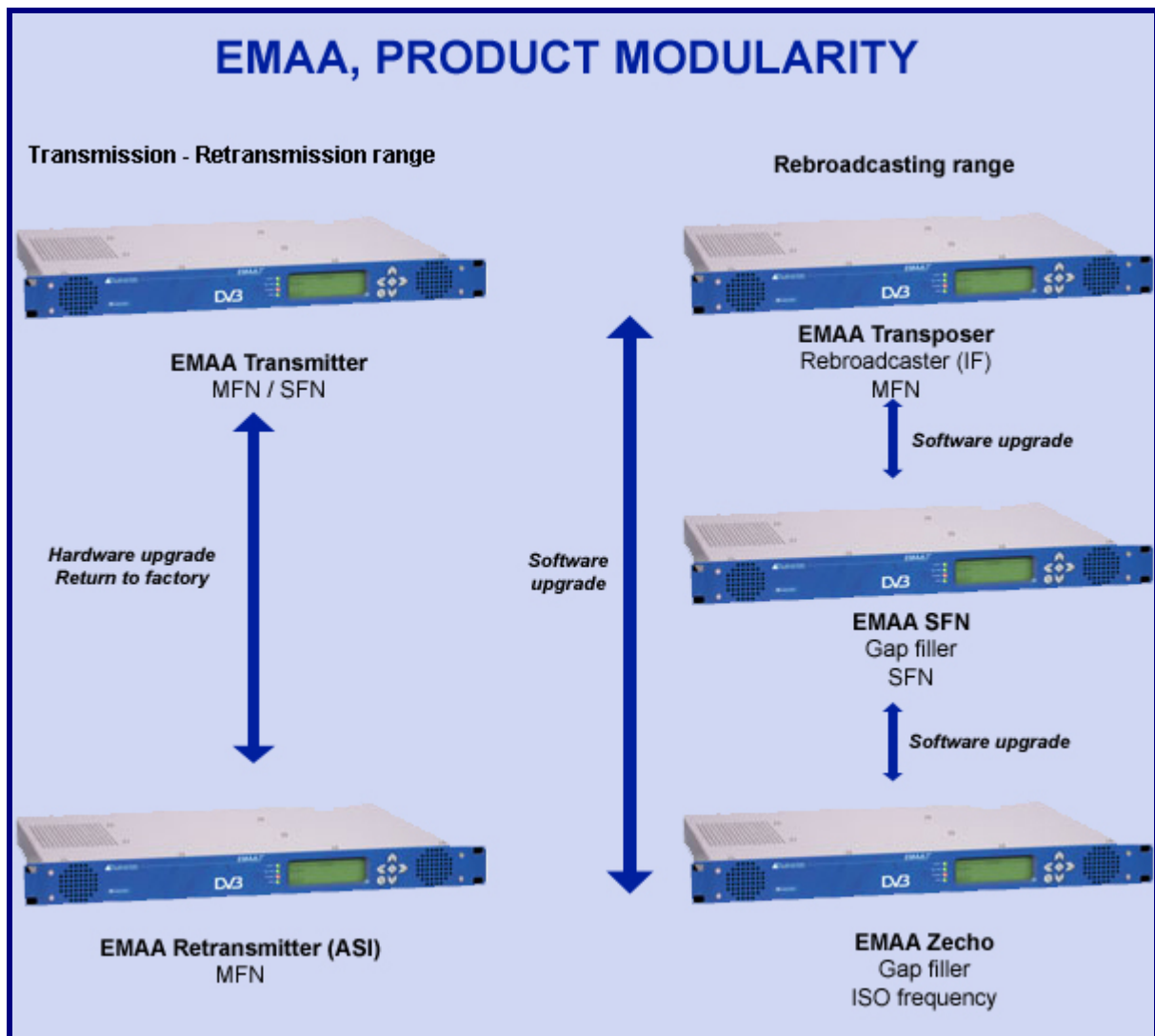
Modulator with exceptional quality:

- Excellent MER, Digital Pre-correction, very low phase noise
- DVB-T and DVB-H
- MFN/SFN functions and hierarchical mode

Re-broadcasting, beyond the capabilities of traditional designs:

- MPEG regeneration at very low cost
- Powerful DVB-T and DVB-H available receiver performance with antenna diversity A comprehensive range:
- Technical specifications for a dimension of 1U with a large range of power options, in 3U unit.

- 3 years guarantee, extensible to 5 years with an MTBF > 80 000 hours.
- Common material base for optimization of the product range and maintenance.
- Standard IP and SNMP protocols for powerful monitoring facilities.
- The presence of two receivers per unit SD in 1 + 1 configuration makes it possible to achieve high quality of service at lower cost with powerful monitoring.
- Integration of the transmitters monitoring to the "**BROADCAST MANAGER**".(centralized database in a unique pc server with specific monitoring functions, statistics, Emails or SMS for users...) to optimize your monitoring strategy.



#### Head office

20, avenue Neil Armstrong  
33700 Bordeaux-Mérignac - FRANCE

Tel: +33(0)557 928 928 - Fax +33 (0)557 928 929