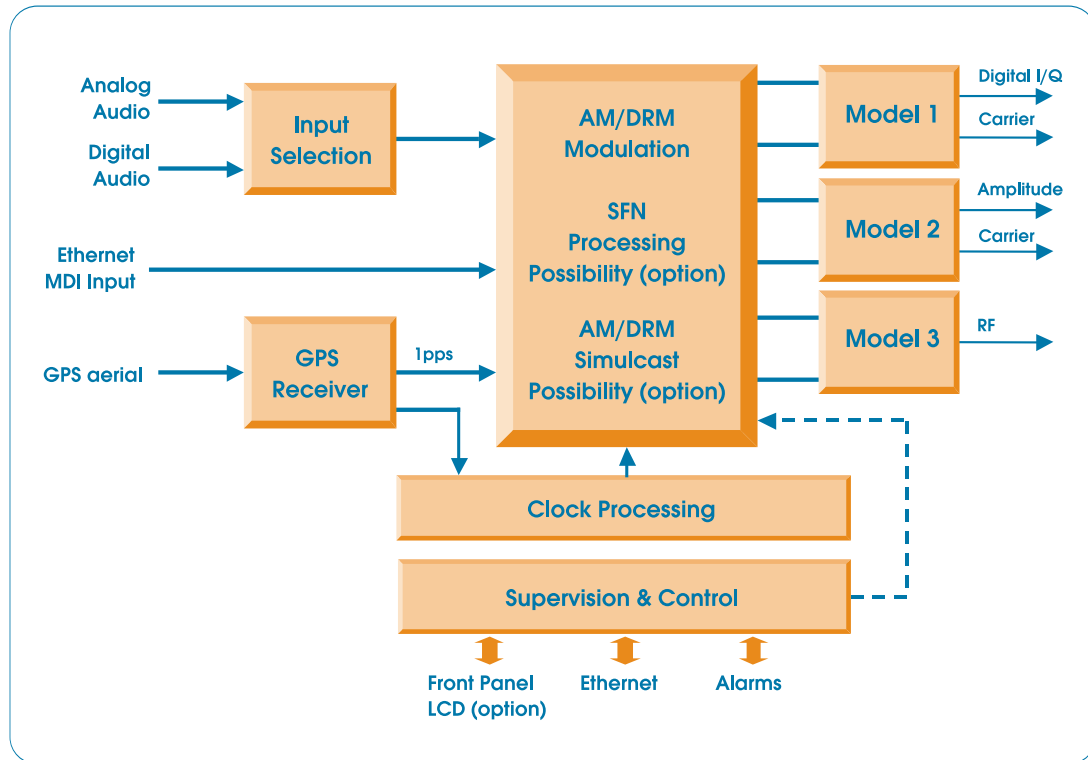


See and listen to the difference with the **CHORUS DrM** product line.

SOPRANO block diagram



main benefits

- Stand-alone and compact product
- Fully compliant with the DRM standard
- Internal GPS receiver for synchronization purpose
- Internal Web server for remote control and set-up
- Alarm reporting through SNMP and relay contacts
- Basic control through a LCD available on the front panel
- Customizable product on request

applications

- DRM Standard modulation
- Single Frequency Network (SFN) capability
- Hierarchical Modulation capability
- Dynamic reconfiguration following
- AM/DRM switching capability
- AM/DRM simulcast capability

SOPRANO specifications

standard hardware & software features

- 1 x RU stand-alone frame
- Power Supply 85 to 264VAC - 47 to 63Hz
- Front panel with three LEDs (green: power supply, yellow: warning & red: fault)
- Integrated GPS receiver
- Three hardware models:
 - Digital I/Q/Carrier output signals
 - Amplitude/Carrier output signals
 - Low power RF output signal (internal signals multiplier)
- Internal Web Server for remote control by HTTP
- Internal SNMP agent (MIB supplied) with Trap Notifications possibilities

optional hardware & software features

- Front panel with LCD for basic and on-site control

input specifications

- 1x Analog audio input - Female XLR 600Ω balanced
- 1x Digital audio input - Female XLR 110 Ω balanced
- 1x MDI input - Ethernet 10/100 Base-T / RJ45 - Compliant with TS 102 820 and TS 102 821 standards
- 1x GPS aerial input - TNC 50Ω

control specifications

- 1x Ethernet Ethernet 10/100 Base-T / RJ45 connector
 - 1x Alarm connector with programmable relay contacts - DB15 Pins

standard DRM features

- Compliant with ES 201 980 standard
- FAC, SDC and MSC Management
- All A, B, C and D modes
- All standard QAM modes (MSC 64 or 16 and SDC 16 or 4)
- Hierarchical symmetrical / Hierarchical mixed constellations and mapping
- Short and long interleaving process
- 4.5/5/9/10/18 and 20kHz channel bandwidths
- From 1/4 to 8/9 - Equal / Unequal coding rate (EEP/UEP)

optional DRM features

- Single Frequency Network (SFN) capability
- AM/DRM simulcast capability

output specifications

(depending on the hardware model)

- 1 x Amplitude signal output - XLR 600Ω balanced
- 1 x Carrier signal output - BNC 50Ω
- 1 x Digital I/Q output - XLR 600Ω balanced
- 1 x direct RF spectrum output - BNC 50Ω
- Digital Pre-corrections capability
- Agile RF frequency from 148.5 kHz to 27Mhz

on request

- Front Panel, Manager and Control Software customizable (logo, brand-name, color...)
- Specific and/or proprietary data features (adaptation on customer special needs)
- Supply of GPS antenna, GPS antenna mounting kit or GPS antenna lightning protection
- On-site user training & setup
- On-line technical support (access to the DIGIDIA Lounge available on the www.digidia.fr web site)
- Factory or on-site acceptance test