CODICO® RTM-3800
Statistical DVB Multiplexer/Re-multiplexer

**General**
The RTM-3800 is a high-end DVB Statistical Multiplexer/re-multiplexer, rich in capabilities, output interfaces and options. It is highly interoperable with multi-vendor Head-end equipment and Conditional Access Systems.

**TriplePass™** — The RTM-3800 supports Scopus TriplePass™ - 3 step parallel approach, securing best encoding and multiplexing mechanism in multi-encoder environment, based on E-1200 encoders. TriplePass™ is based on pre-processing, compression complexity estimation and statistical multiplexing.

**Applications**
- Fixed Distribution / Contribution
- Satellite, DVB-T, MMDS
- Cable TV head-ends
- Digital Turnaround
- Video Distribution over Telco infrastructure
- Video-on-Demand
- Transport Stream re-multiplexing
- Transport Stream processing

**Features and Options**
- DVB Multiplexing of up to 25 MPEG-2 Transport Streams
- Statistical Multiplexing Support for up to 20 E-1200 encoders
- Advanced Re-multiplexing (Add/Drop)
- Up to 120 Mbps Input/Output bitrates
- PID re-mapping and Transport Stream Processing
- CODICO® SI-3050 PSI/SI Generator Support for DVB Table editing and EPG insertion
- Open Systems DVB Simulcrypt ver-3 Interface
- Support of leading consumer Conditional Access (CA) systems
- Built-in DVB scrambler (optional)
- Multi-channel BISS Multiplexing (optional)
- Modular, scalable and configurable
- Dynamic input switching for redundant applications
- Dry contact alarm indicators (GPI)

**DVB Transport Stream**
Statistical Multiplexing utilizing TriplePass™ with CODICO® E-1200 Encoders

**Advanced Re-multiplexing**
CODICO® SI-3050 PSI/SI Generator Support

**DVB Simulcrypt Interface** with leading Conditional Access Systems

**Telco interfaces**
### STATISTICAL MULTIPLEXER

#### Operating Conditions
- **Temperature**: 0°C - 45°C
- **Humidity**: 5% - 85% non-condensing

#### Storage & Transportation
- **Temperature**: -40°C - 70°C
- **Humidity**: 0% - 95% non-condensing

#### Compliance
- **EMC**: FCC part 15 (class A), CE, CB, cTUVus, UL60950, GS

#### Physical Details
- **4RU high unit Free-standing or rack-mountable (19” rack)**
- **17.5” X 48.2” X 45.7cm**
- **7” X 19” X 18”**
- **Weight**: 11 Kg / 22 lbs

#### Control and Monitoring
- **Local**: Extensive Front Panel Control, Local terminal and RS-232, Configuration files
- **Remote**: CODICO® NMS-4000 via Ethernet TCP/IP (optional), Software upgrade, Telnet access via Ethernet

#### Power
- **Voltage**: 90-260 V AC, 50/60Hz, -48VDC (optional)
- **Power consumption**: 110 Watt max

#### Processing
- **Re-Multiplexing** (all inputs)
  - Service level
  - Component level
- **Statistical Multiplexing**
  - CODICO® SM-3010 Statistical Multiplexing Support up to 20 CODICO® E-1200 encoders
- **Simulcrypt**
  - Interface: 100BaseT, A1S
  - CAS: Irdeto®, Viaccess®, Nagravision®, Converient, NDS, MediaGuard®, VideoGuard®, Conax®, ChinaCrypt®, Cryptoworks, other

#### Conditional Access (optional)
- **DVB-Scrambling**
- **CODICO® CAS-5020 CODICrypt® Support**
- **Multi-channel BISS scrambling**

#### Outputs
- **DVBA-SI**: Dual output
  - Interface: Copper
  - TS bit rate (unscrambled): Up to 120 Mbps
  - TS bit rate (Scrambled): Up to 78 Mbps
- **DVB-PDH (optional)**
  - Dual output
  - Protocol: ATM AAL-1
  - Data rates: DS3, E3
  - G.703 (optional)
    - Unframed, E2 or E3
    - FEC (optional): DVB-C FEC

#### Inputs
- **DVB-ASI**: 10/15/19/25 inputs
  - Interface: Copper
  - TS bit rate: Up to 120 Mbps

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