

MAINDATA has manufactured bandwidth optimized video transmission equipment for 17 years, with a customer base of satellite and communications companies around the world.



The experienced and highly skilled engineering team can easily help you optimize our products to the requirements of your network and video transmission solution.

PROFILE

BANDWIDTH OPTIMIZED VIDEO TRANSMISSION SOLUTIONS

MAINDATA offers best in class video technology, optimized for bandwidth utilization and cost for:

video distribution and **contribution, head-end equipment** including **video encoding, transcoding** and **multiplexing**, and **data transmission** via **satellite, terrestrial** and **cable**

SFN SIGNAL COMPRESSION & DISTRIBUTION

OPTIMUX

Performs patented, intelligent SFN multiplexing:

OPTIMUX DTH parallel DTT and DTH satellite transmission
OPTIMUX AD regional ad insertion into national TV programming
OPTIMUX REG compression of multiple MPEG TS with regional or local TV programming.

Suitable for DVB-T2, ISDB-T and ATSC. Highly optimized use of expensive satellite transmission for Direct to SFN tower (DTT).

DATA SERVICES BY TV BROADCAST

MEDIACAST

OTT services via a TV broadcast channel to STB, tablets addressable and FEC protected.

IP ENCAPSULATOR

MPE, GSE encapsulation of IP packets into a digital TV MPEG transport stream, multilayer QoS, broadcast network management system, cluster architecture.

HYBRID-NET

Combines TV forward link with any IP return channel into 2 way internet.

SMART EDU

Interactive video based eLearning platform via TV signal.

TERRESTRIAL MWS, MMDS NETWORKS:

1 and 2 way, TV & Internet networks in various frequency bands up to 14 GHz.

MOBILE TV NETWORKS

DVB-T2 and DVB-H mobile TV networks.

DIGITAL TV HEAD-ENDS

OPTISAT S2/S

Professional satellite receiver with dual tuner, CI slot, with built-in demux, remux, transcoder. Includes remote firmware update, remote control via web interface and SNMP and in-bound signalling.

MD TRANSCODER

MD Transcoder MPEG2 H.264 - transcodes up to 40 SD channels MPEG-2 to H.264, up to HD1081i. Video pre-processing functions: de-interlacing, de-noise, inverse telecine, resize and crop.

MD ENCODER

MD H.264 Encoder encodes H.264 (MP@L3, up to D1 (HD) video format). AAC-HEv.2. SDI, HD-SDI and analog video in. Video preprocessing: de-interlacing, 3:2 pull down and frame rate subsampling.

VIDEO OVER IP

MD ASI to IP adapter

Retransmission of up to 16 MPEG TS, with FEC, encapsulation to IP, input via DVB-ASI.

MD IP to ASI adapter

Receives up to 16 MPEG TS over IP, with FEC, built-in MUX, PCR restamping, output via DVB-ASI.

Reference list

World Bank I.B.R.D ♦ Washington D.C. ♦ USA

P.T. CSM ♦ Jakarta ♦ Indonesia

PDMC ♦ Taipei ♦ Taiwan

Katelco ♦ Almaty ♦ Kazakhstan

Telconsult ♦ Tendring ♦ UK

ISAT (SES Global company) ♦ Orlando ♦ USA

One2Net ♦ Kampala ♦ Uganda

Satcoinx ♦ Barcelona ♦ Spain

Synergistics Communications ♦ Orlando ♦ USA

Telenor ♦ Bratislava ♦ Slovakia

SONY ♦ Trnava ♦ Slovakia

Eurotel ♦ Milan ♦ Italy

Tatanet ♦ Mumbai ♦ India

Samsung ♦ Sereď ♦ Slovakia

Asus ♦ Ostrava ♦ Czech republic

Telefonica O2 ♦ Praha ♦ Czech republic

SVS Telekom ♦ Istanbul ♦ Turkey

HCL Comnet ♦ Noida ♦ India

Teleskies ♦ Tripoli ♦ Lybia

Horizon Satellite Services ♦ Dubai ♦ UAE

ICCES ♦ Al-Khobar ♦ Saudi Arabia

Archway ♦ Milan ♦ Italy

Ratioconsulta ♦ Milan ♦ Italy

IEC/MCOT ♦ Bangkok ♦ Thailand

Canal 10 ♦ MonteVideo ♦ Uruguay

Al-Sabah ♦ Sharq ♦ Kuwait

TMR ♦ Liptovsky Mikulas ♦ Slovakia

Orange Slovakia ♦ Bratislava ♦ Slovakia

Gulfsat ♦ Sharq ♦ Kuwait

Wifi Networks ♦ Noida ♦ India

Al-Haheer ♦ Sharq ♦ Kuwait

Foxconn ♦ Nitra ♦ Slovakia



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