HARDWARE
AND SOFTWARE
SOLUTIONS
FOR DIGITAL TV

VideoSwitch
DIGITAL INNOVATION

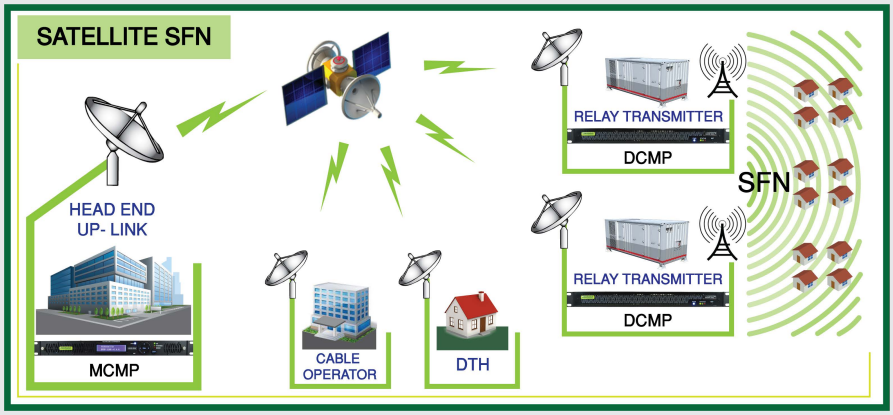
BTS COMPRESSION

FOR THE CREATION OF ISDB-T SFN
NETWORKS VIA SATELLITE LINK

MCMP **DCMP**

Perfect for any environment

- ASI and IP inputs and outputs with automatic redundancy
- Up to 4 BTS per device in independent or multiplexed modes (transmits 4 BTS through the same transponder)
- Compatible with DTH and DVB encryption
- Supports EWBS (Emergency Warning Broadcast System)



MAIN FEATURES

- MCMP: ISDB-T multiplexer with BTS compressor compatible with MPEG, ISDB-T and DVB-S/S2/S2X standards
- DCMP: BTS decompressor and regenerator according to ARIB STD-B31 and ABNT NBR 15601
- Independent Video and Control Ethernet interfaces with redundant option on both devices
- BTS compression according to VideoSwitch algorithm that allows grouping up to 4 ISDB-T BTS in the same DVB TS to optimize the use of the satellite link
- Allows adding additional content that is not part of the compressed BTS (e.g. EMM and ECM packets for encryption)
- Automatic Redundancy for Inputs and Services
- EWBS signalling for emergency information
- Synchronization for SFN networks
- Supports EPG, Closed Caption and Datacasting servers, including VideoSwitch SSA (Auxiliary Services Server)
- Integrated FPGA/Microprocessor, not PC based

TECHNICAL FEATURES

BTS COMPRESSION
FOR SFN NETWORKS

	MCMP-3100	DCMP-3000	DCMP-500
	BTS COMPRESSION	BTS DECOMPRESSION	
FUNCTIONS	Multiplexing and Compression of up to 4 independent BTS in the same TS or in up to 4 TS DVB compatible	Decompression of up to 4 BTS coming in the same Compressed TS or in 4 separate TS	
	Multiplexing of up to 32 services by BTS	Fully autonomous operation, self-configures with the compressed BTS it receives	
	PIDs, services and transport remapping		
	Independent Ethernet Video and Control interfaces		
	Manual and automatic PMT edition		
	BTS generation in compliance with ARIB STD-B31 and ABNT NBR 15601		
	Generation and retransmission of PSI and SI tables according to ABNT NBR 15603		
	Correction and re-stamping of PCRs		
	Automatic redundancy per input and service with internal switch-over (L)		
	Automatic edition of EITs for Service ID correction (L)		
	Synchronization for SFNs		
	Bitrate Limiter per input and service (L)		
	EWBS and Superimpose signalling with manual or automatic activation via EWDT (Emergency Warning Distribution Table) (L)	EWBS Support	
	Optional: Embedded GPS receiver for internal generation of 10 MHz and 1 PPS References [G]		
INPUTS	Standard: 1 IP GbE Input/Output + 4 ASI inputs	Standard: 1 IP GbE Input/Output + 2 ASI inputs	
	Optional: 2 IP GbE Inputs/Outputs (2 x Data / Main + BackUp / Input + Output) [2ID]		
	Optional: 8 ASI Inputs (8 x Data / 4 x Data + 4 x Backup) [8A]		
	Supports 188 and 204 bytes TS packets	Supports Compressed BTS in Videoswitch format, either Independent or Multiplexed mode	
	Supports up to 248 SPTS/MPTS over IP Unicast/Multicast + 4 (8) SPTS/MPTS over ASI	Supports up to 4 SPTS/MPTS per IP Unicast/Multicast + 2 SPTS/MPTS per ASI	
REFERENCES	Input and Output (Active Loop) of 10 MHz and 1 PPS High accuracy Internal Oscillator with Hold Over Optional: Embedded GPS receiver [G]		
OUTPUTS	From 1 to 4 redundant Compressed BTS ASI (Main + BackUp) in independent or multiplexed mode + 1 IP GbE Input/Output	From 1 to 4 redundant ASI BTS (Main + BackUp) + 1 IP GbE Input/Output	1 redundant ASI BTS (Main + BackUp) + 1 IP GbE Input/Output
	1 x ASI for Monitoring (TS or BTS) (1 x BNC)		
	Optional: 2 IP GbE Inputs/Outputs (2 x Data / Main + BackUp / Input + Output) [2ID]		
CONTROL	Software and Firmware management and update through a user-friendly and intuitive Web Interface User control for access restriction Indication of the global status of the device with alarms and error log. RS-232 port for service and maintenance		
	Hotswap front panel for basic configuration and access to fans and power supplies		Status and power indicator on front panel
	Monitoring and control through SNMP protocol (L)	Monitoring and control through SNMP protocol	
	Optional: Dual Ethernet Interface for control and monitoring [2IC]		
OPTIONAL MODULES	Embedded GPS receiver [G] External GPS antenna with 20m cable. [An]		
	4 ASI inputs expansion [8A]		
GENERAL	Maximum Power Consumption 30W 1U 19" x 250mm (depth) – Single removable Power Supply Optional: Dual Hot-Swap Power Supplies [2 FNT] Power: 90-264VAC (47Hz-400Hz).		Maximum Power Consumption 20W 1U 19" x 160mm (depth) – Single fixed Power Supply Power: 85-264VAC (47Hz-63Hz).

(L): Software licensing

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