

# NN6-SIP-DTMB SFN Adapter

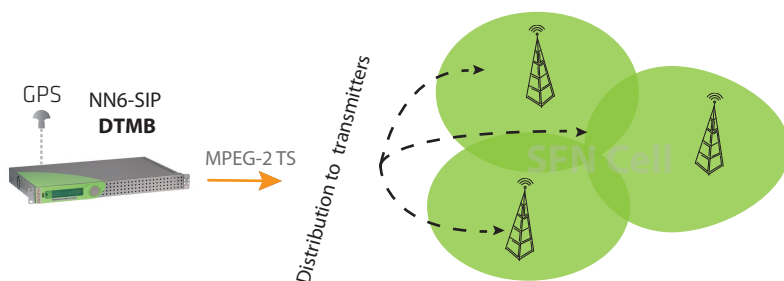
## SIP Inserter for Chinese SFN DTMB Broadcast Network



**NN6-SIP Inserter for DTMB provides a cost effective and highly reliable solution for setting up Single Frequency Network (SFN).**

Frequency allocation is one of the main issue Broadcasters and Network Operators have to face. NN6-SIP inserter DTMB enables spectrum band optimization by synchronizing the transmission of any DTMB transmitter within one SFN cell.

NN6-SIP inserter is fully compliant with Chinese standard GB20600-2006 and allows the modification of static delay of individual transmitter.



### Applications

- DTTV SFN broadcast
- DTMB (DMB-T) SFN network build up

### Benefits

- Spectrum band optimization
- Future-proof platform
- High grade SFN Adapter
- Unique redundant solution
- Straight integration into NMS

### Characteristics

- 2x ASI inputs with automatic selection
- 2x mirrored ASI outputs
- 1x 10 MHz input
- 1x 1PPS input
- 32 Mbps throughput
- 2x redundant Fast Ethernet control ports
- 100% SNMP controllable
- Web Server embedded
- Real time monitoring
- Fault relay alarm
- Integrated GPS receiver (option)
- 1+1 redundancy

### Options

- Internal NN6-GPS receiver
- DVB-T/H support (multistandard)

# NN6-SIP SFN Adapter

## SIP Inserter for Chinese SFN DTMB Broadcast Network

### Input Interface

MPEG2-TS	2x ASI software selectable 1+1 ASI redundancy BNC (75 Ω)
Clock Reference	10MHz and 1PPS inputs Upon external reference loss: internal 1PS and 10MHz signal
control	10/100 Base-T for standard web based interface.

### Output Interface

MPEG2-TS	Bit Rate: 0-32 Mbps
TS substitution	Null and SIP packets are inserted upon input sync loss (configurable)
Output mute	Configurable output mute upon 10 MHz loss and/or input sync loss

### Processing

Configuration	Second Frame Initialization Packet (SIP) insertion according to GB20600-2006 All DTMB mode supported Static delay configuration
Input data	Bitrate adaption + PCR restamping
Redundancy	Redundant ASI inputs Mirrored ASI outputs 1+1 seamless switch-over
Supervision	Full SNMP v2 support Gets, sets and configurable traps for NMS supervision
Option	Integrated NN6-GPS DVB mode support

### Alarms

Sources	ASI Sync missing MPEG2-TS sync missing 10MHz / 1PPS loss No PCR detected System T° / Overflow GPS signal loss System Clock loss / internal error
SNMP	Any alarm can be configured as a trap and/or trigger relay out

### Environment

Operating temperature	0 to 50°C / 0 to 122 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing

### Physical

Height	43 mm / 1.7 in.
Width	440 mm / 17.4 in.
Depth	274 mm / 10.79 in.
Format	1 RU, ½ width 19"
Power supply	100-240VAC
Power consumption	8 W



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