



## Main Feature:

- Fully compliant with DVB-T2 standard
- Support Mode A, Mode B and Multi-PLP
- 2xASI inputs, 1xGigabit Ethernet IP input with, optional satellite input
- Support 1k, 2k, 4k, 8k , 16k , 32k FFT modes
- Guard Interval: 1/4, 1/8, 1/16, 1/32,1/128,19/128,19/256
- Rotated constellation: 29°, 16.8°, 8.6°, 16.8°, Antan(1/ 16°)
- FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
- Constellation: QPSK, 16QAM, 64QAM, 256QAM
- Support SFN-SISO-MISO and MFN
- Channel Bandwidth: 5MHz, 6MHz, 7MHz, 8MHz
- RF agile from 30MHz to 900MHz with step 1Hz
- High performance RF feature with MER>40dB
- External 1pps and 10MHz Clock inputs
- Onboard GPS option
- Powerful Linear and non linear correction
- IP remote control and RS232 serial control





## Technical Specification

### ASI Input:

Standard	Compliant with EN 50083 ASI interface standard
Packet Length	188 or 204 packet, Packet mode and Burst mode
TS Redundancy Mode	Manuel or Auto, seamless in SFN mode
Connector Type	BNC female, impedance 75Ohm

### Satellite Input:

Standard	Compliant with DVB-S and DVB-S2 standard
Frequency Range	950MHz to 2150MHz
Sensitivity	-65dBm to -25dBm
Connector Type	BIS- F connector, 75Ω

### Ethernet stream Input:

Transceiver Type	Copper transceiver or optical transceiver
Connector Type	one RJ45 for 1000base-T one SFP for Gigabit optical input

### Stream Processing and Modulation:

Stream Input	Stream input redundancy management
Network	MFN, SFN-SISO and SFN-MISO
Modulation Mode	Mode A, Mode B and Multi-PLP
FFT	1k,2k, 4k, 8k, Extended 8k, 16k, Extended 16k,32k, Extended 32k
FEC	1/2, 3/5, 2/3, 3/4, 4/5,5/6
Guard Interval	1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
Constellation	QPSK,16QAM,64QAM,256QAM (normal or rotated)
Time Interleaving	Adjustable Time Interleaving

### Digital Pre-correction:

Pre-correction	Linear and non-linear pre-correction
Spectrum tilt adjustment	+1dB, step 0.1dB

Peak to Average Power Reduction(PAPR)

### Linear Pre-correction:

Bandwidth	8MHz	7MHz	6MHz	5MHz
Useful Bandwidth	7.61MHz	6.66MHz	5.71MHz	4.76MHz
Correction Points	32	32	32	32
2 Points Spacing	245KHz	215KHz	184KHz	154KHz

### Non-linear Pre-correction:

Correction	Point	Abscissa range	Ordinate range	Step
AM/AM	16	-12 dB to +12dB	-6dB to +6dB	0.05dB
AM/PM	16	-12 dB to +12dB	-25° to +25°	0.05dB/0.2°





<b>RF Output:</b>	
Central Frequency	30MHz to 900MHz
Signal Level(Main)	0dBm +/- 1dB with 0dB to -10dB attenuation adjustable by 0.1dB step
Output Level Stability	+/- 0.1dB/10°C
Modulation Error Ratio(MER)	>40dB
Shoulder	<-50dB @ +/-4.2MHz from central frequency
Spurious	<-50dBc relative to total power
Return Loss	>15dB
Connector Type	N female, impedance 50 Ohm
<b>Test Signal Modes:</b>	
Mode 1	PRBS TS sequence
Mode 2	Sinus tone generation
Mode 3	Spectrum Gap
Mode 4	Null Symbol Insertion
<b>Clock Reference:</b>	
Internal 10MHz	Stability: 0.5ppm(typ), Output level: 0dBm +/- 3dB
External 10MHz	Input level: -5dBm to +10dBm Input connector type: SMA female, 50 Ohm
External 1PPS Reference	Input level: LVTTTL and TTL level, Pulse width: 1us Input connector type: SMA female, 5 KOhms;
Connector Type	2 pairs of BNC female, 75Ω
<b>Built-in GPS Receiver Option:</b>	
Locked Accuracy	+/-1 x 10 <sup>-9</sup>
Status Monitoring	Antenna status, GPS lock status, Satellite Number and signal strength, YY/MM/DD and HH/MM/SS
<b>Control and Alarm:</b>	
Remote Control	IP Ethernet RJ-45 or RS232
Contact Relay	Major alarms
<b>Physical Conditions</b>	
Power Supply	AC 190V - 240V, 50/60Hz
Power Consumption	100W max
Operating Temperature	0 - +50°C
Storage Conditions	-40 - 50°C
Dimension	44mm(Height) x 483mm(Width) x 500mm(Depth)
Weight	Net 3.3 kg, Gross 5 kg

