

# RF MONOPULSE SCANNER PLATE

RF Monopulse Scanner Plate is an essential module which creates the high-quality L-band modulated signal from satellite-band SUM and ERROR signals, with customized block down-converter, adjustable signal attenuation and excellent phase noise for the precise and reliable monopulse tracking receiver.

## PRODUCT OVERVIEW

- The RF Monopulse Scanner Plate plays an essential role in satellite tracking system. It benefits from NPC SYSTEM 50 years' experience in satellite tracking systems to provide a precise and reliable signal for the NEYRPIC® Digital Tracking Receiver DTR500 in Monopulse Mode.

- High quality L-band phase-modulated beacon signal with excellent phase noise.

- Up to 10 bits digital phase shift control from the NEYRPIC® Digital Tracking Receiver DTR500 for maximum accuracy and reliability.

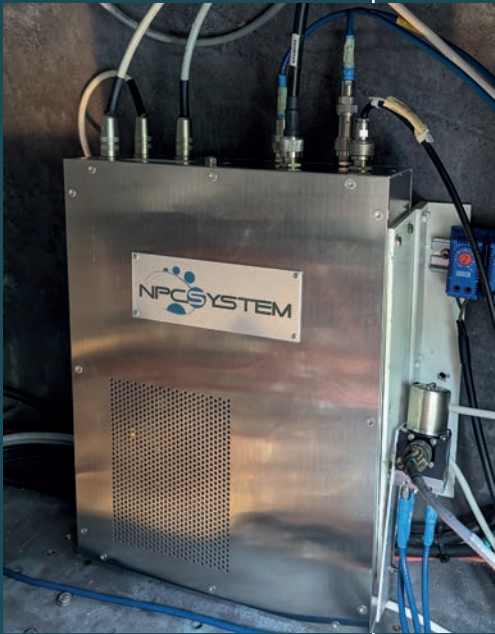
- Customable interface for input/output connectors in SMA and/or N type.



- Integrated fault detection system triggering an alarm in case of power or RF signal loss.

- Customization to work at different satellite frequency bands : S, C, X, Ku, K and Ka.

- Input signal adjustment through RF attenuator.



## KEY FEATURES

- Operating frequencies configured for all commercial and military satellite bands (S, C, X, Ku, Ka)
- Integrated block downconverter in single or multiple bands
- High quality phase-modulated output signal with excellent phase noise
- High resolution 360° phase shift control with fast switching speed
- Adjustable ERROR attenuation for optimisation of input signals
- Automatic alarm detection

## SPECIFICATIONS

CHARACTERISTICS	
INPUT FREQUENCIES	S, C, X, Ku, Ka
OUTPUT FREQUENCIES	L band (950-2150 MHz)
RF IMPEDANCE	50 Ohm
RF INPUT CONNECTORS	SMA or N-type female
RF OUTPUT CONNECTORS	N-type female
DIO/TRU CONNECTORS	M16 circular male
POWER SUPPLY	85 to 264 VAC, 50 Hz - 60 Hz
BDC GAIN	30 dB typical
VSWR	2:1 max / 1.7:1 typical
EXTERNAL 10 MHz REFERENCE	Sinus wave, input level from -10 Bm to +10 dBm
OUTPUT PHASE NOISE	-80 dBc typical @1 kHz
OUTPUT P1dB	+5 dBm typical
OUTPUT P3dB	+15 dBm typical
PHASE SHIFT CONTROL	360° in 1024 steps / 10-bit TTL control / 500 ns switching speed
TEMPERATURE RANGE	Opération: -25 to +60°C Storage: -40 to +70°C

