

# Product Specification Summary

## Indirect Synthesizer for X-band Satcom Applications

Using integer and fractional phase-locked loops (PLLs), Narda's SATCOM indirect synthesizer provides very low phase noise for satellite communications applications from 6.18 to 6.68 GHz with step resolution of 1 kHz. The unit is phase-locked to an external (or optional internal), frequency between 5 and 100 MHz. It employs three loops (main, offset, and reference) to provide an agile frequency output from 6.18 GHz to 6.68 GHz along with an additional PLL to provide a fixed-frequency 500 MHz LO signal. The unit can be controlled and programmed via RS-232 and trigger signals to change frequencies are provided by a TTL trigger.

## SATCOM Series

### Key features

- Highly-stable output from 6.16 to 6.68 GHz
- Step resolution of 1 kHz
- Extremely low phase noise and high spurious and harmonic rejection
- Custom configurations and specifications available
- Compact, rugged, and conservatively designed

Narda's Indirect X-band SATCOM synthesizer



Tunable frequency range (GHz)	•6.18 GHz to 6.68 GHz
Output resolution (kHz)	1
Spurious rejection (dBc)	-75
Phase noise (dBc/Hz)	
100 Hz offset	-75
1 kHz offset	-80
10 kHz offset	-93
100 kHz offset	-100
1 MHz offset	-125
10-MHz Clock reference	Internal or external
Programming, control	RS-232
Frequency-setting control	TTL

Please consult the factory for detailed product specifications.

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