

# Product Specification Summary

## L-band/Ka-band Transceiver for Outdoor Applications

Narda's Model 10216 is a compact, ruggedized L-band/Ka-band transceiver module that is designed to withstand hostile environmental conditions encountered when operated outdoors. The module's transmitter accepts a 1-to-2 GHz IF input signal and produces a P1dB RF output signal of +11 dBm from 30 to 31 GHz. The receiver accepts a 20.2 to 21.2 GHz input signal and produces an IF output signal from 1 to 2 GHz with a P1dB RF output power of +10 dBm. The Model 10216 employs either its 10 MHz internal reference or an external reference, and monitoring and control is provided via RS-422..

## Model 10216

### Key features

- Rugged, compact Ka-band transceiver for Ka-band applications
- Weatherproof construction for use outdoors
- Transmitter: 1 to 2 GHz IF input produces +11 dBm P1dB 30 to 31 GHz output
- Receiver: 20.1 to 21.2 GHz RF input produces P1dB +10 dBm 1 to 2 GHz output
- Superior phase noise performance

Model 10216 Ka-band transceiver



Transmit input frequency (GHz)	1 to 2
Transmit output frequency (GHz)	30 to 31
Receive input frequency (GHz)	20.2 to 21.2
Receive output frequency (GHz)	1 to 2
Transmitter input power (dBm)	-20
Transmitter output power, P1dB (dBm)	+11
In-band spurious, 30 to 31 GHz (dBm)	-90
Out-of-band spurious (dBm)	-55
Phase noise (dBc/Hz) 10 Hz offset	-50
1 MHz offset	-113
Features	Weatherized, mute function, LO sampling port, RS-422 M&C, protection circuits, internal or external 10 MHz reference

Please consult the factory for detailed product specifications.

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