# **Ka-Band RF Electronics Products Comparison**

General Dynamics SATCOM Technologies is the world's leading designer and producer of high-performance satellite communications products used in earth stations and teleports worldwide. For over 30 years we have provided operators with reliable RF electronics for modern earth stations to close the link. We continuously strive to improve and develop new innovative products to meet the evolving needs of our customers.

### Low Noise Block Converters (LNBs)

Noise Temperature	110K °C	110K °C	
Band	Ka-Band	Ka-Band	
Frequency	19.20 - 20.20 GHz	20.20 - 21.20 GHz	
Types Available	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers	
Auto-Switch Reference	Internal reference power muted when external reference is present	Internal reference power muted when external reference is present	
Model	TLNB20000AS.0002	TLNB20000AS.0007	
Temperature Range	-40 °C to +70 °C	-40 °C to +70 °C	

## Solid State Power BUCs (SSPBs)

Power, Psat	16W	
Band	Ka-Band	
Frequency	29.00 - 30.00 GHz	
Applications	Compact, Small Deployable Antennas, SNG and SOTM	

### **Block Down Converter (BDCs)**

Band	Ka-Band		
Input Frequency	20.20 - 21.30 GHz		
Output Frequency	950 - 2050 MHz		
Types Available	Single-Thread Controllers		
Temperature Range	-40 °C to +70 °C		

#### **Block Up Converter (BUCs)**

Band	Ka-Band	
Input Frequency	950 - 2050 MHz	
Output Frequency	17.30 - 18.40 GHz	
Types Available	Single-Thread Controllers	
Temperature Range	-30 °C to +70 °C	

### Low Noise Amplifiers (LNAs)

Noise Temperature	110K °C	110K °C	120K °C	120K °C	120K °C
Band	Ka-Band	Ka-Band	Ka-Band	Ka-Band	Ka-Band
Frequency	18.20 - 20.20 GHz	20.20 - 21.20 GHz	18.20 - 20.20 GHz	20.20 - 21.20 GHz	17.70 - 21.20 GHz
Types Available	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2 and designs with Tracking LNAs. Systems include Redundancy Controllers
Temperature Range	-40 °C to +70 °C				

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#### **GENERAL DYNAMICS** SATCOM Technologies