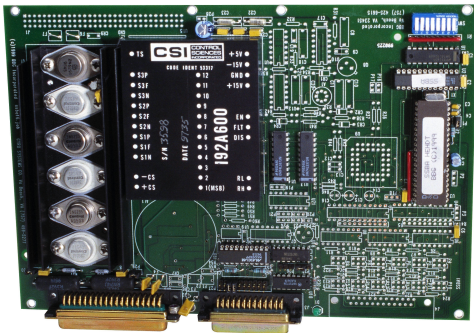




## BBG-SSBA

## Synchro Booster Amplifier

### Description



The BBG-SSBA-25 and BBG-SSBA-125 are 6U VMEbus format pc cards that interface between computer, synchro and resolver systems. The BBG-SSBA is a "SMART" interface due to the onboard processor, which controls all conversion functionality, thus, requiring no host processor.

The BBG-SSBA is factory configurable to customer requirements for easy field installation. Models available include 6.81V resolver, 11.8V and 90V synchro at both 60 and 400 Hertz.

### Applications

- Radar Systems (antenna azimuth)
- Navigation Systems (gyrocompass, speedlog, course, pitch, and roll)
- Industrial Processes (position, velocity)
- Meteorology Instruments (wind speed and direction)
- Many Others

### Features

- 6.81Vrms Resolver
- 11.8 or 90 Vrms Synchro
- High Power 25VA and 125VA Synchro/Resolver Outputs
- Thermal Protection
- Enable, BIT and Kick Circuitry



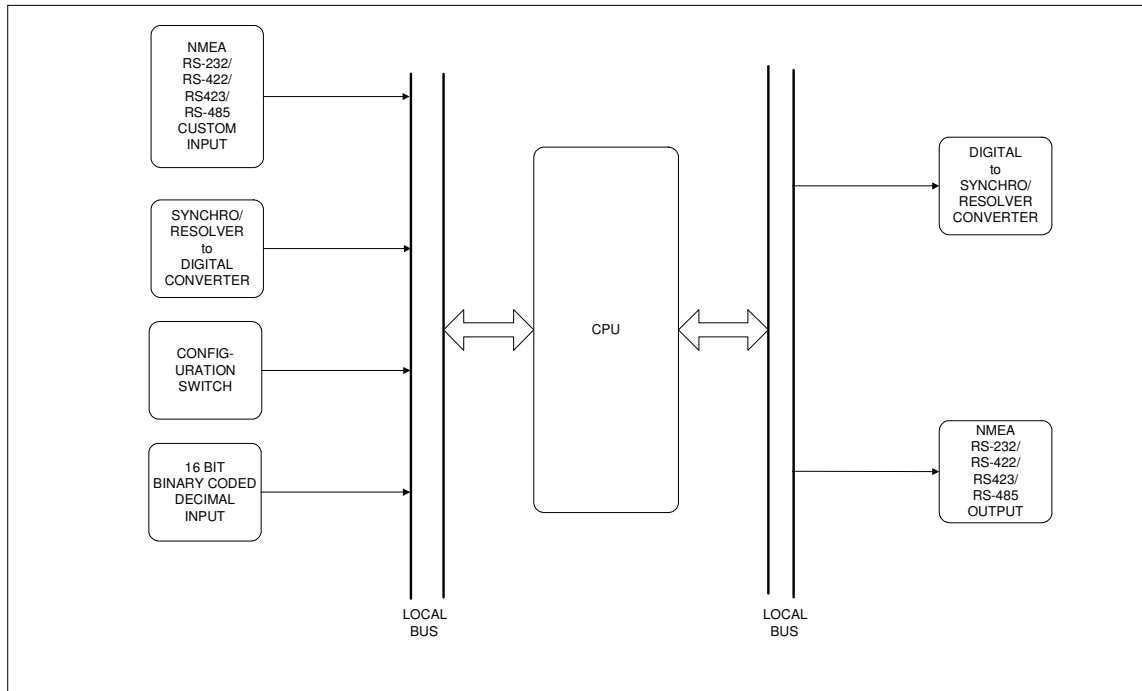
**Chart**

Figure 1. BBG-SSBA Functional Diagram

**Overview**

The BBG-SSBA is a 6U VME FORMAT pc card, which inputs a serial data message, a synchro, or a resolver data format containing a speed or angular position. This information is processed by the onboard microcontroller and output in a synchro or resolver format. The BBG-SSBA-25 has an output power of 25VA and the BBG-SSBA-125 has an output power of 125VA. An onboard microcontroller configures the card from power up or reset and provides all signals and control to read the input information and output the synchro/resolver information. Serial data formats, power outputs, synchro and resolver voltages and frequencies are factory configured to user requirements.

The BBG-SSBA accepts serial data in RS-232, RS-422, RS-423, RS-485, or MIL-STD-188C protocols. Serial baud rates are switch selectable at: 2400, 4800, 9600, 19,200, and 38,400 bits per second. Default serial input is 9600, 8 bits, no parity, and one stop bit (9600, 8, N, 1). Custom data formats, voltages and frequencies are available upon request.



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**Technical Specifications**

<b>BBG-SSBA-25 SPECIFICATIONS</b>		
PARAMETER	VALUE	UNITS
POWER SUPPLY	5	Volts
	300	Milliamps
	15	Volts
	8 (max)	Amps
	-15	Volts
	8 (max)	Amps
TEMPERATURE RANGE		
OPERATING	0 to +50	C°
STORAGE	-65 to +150	C°
PHYSICAL CHARACTERISTICS 6U VMEbus PC CARD	9.2 x 6.41 x 0.78	in.
	23.37 x 16.28 x 1.99	cm.

Table 1. BBG-SSBA-25 Specifications



<b>BBG-SSBA-125 SPECIFICATIONS</b>		
PARAMETER	VALUE	UNITS
POWER SUPPLY	5	Volts
	300	Milliamps
	15	Volts
	15 (max)	Amps
	-15	Volts
	15 (max)	Amps
TEMPERATURE RANGE		
OPERATING	0 to +50	C°
STORAGE	-65 to +150	C°
PHYSICAL CHARACTERISTICS 6U VMEbus PC CARD	9.2 x 6.41 x 0.78	in.
	23.37 x 16.28 x 1.99	cm.

Table 2. BBG-SSBA-125 Specifications



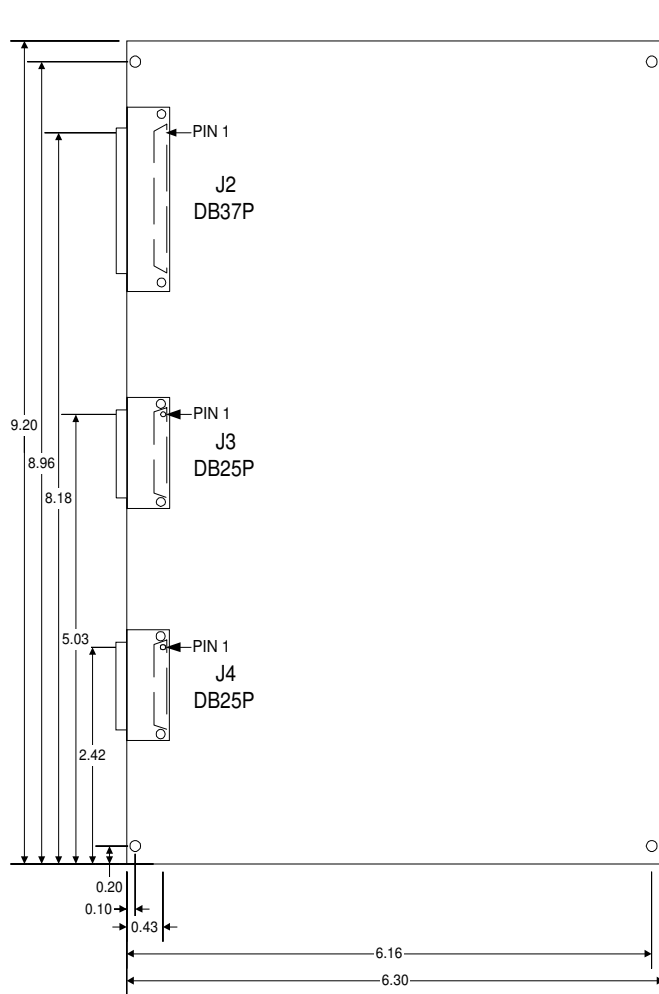


Figure 2. BBG-SSBA Dimensions

