Innovative Solutions in Engineering

BBG-2000E/O Universal Conversion Engine

Description

The Universal Conversion Engine is a stand-alone module, which provides data format conversion of digital, analog, serial, step, synchro, and resolver signals.

These interfaces are factory configurable to customer requirements for easy field installation.

An onboard microcontroller controls the processing of these signals to provide conversions to user requested outputs.

Applications

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

Features

- NEMA-0183 Compatible
- Optional LCD Display
- 90V, 11.8V Synchro, 6.8V Resolver
- 6 and 12 STEP/DEGREE
- RS-232, RS-422, RS-423, RS-485, MIL-STD-188C Protocols
- Custom Serial Data Formats and Frequencies are available upon request

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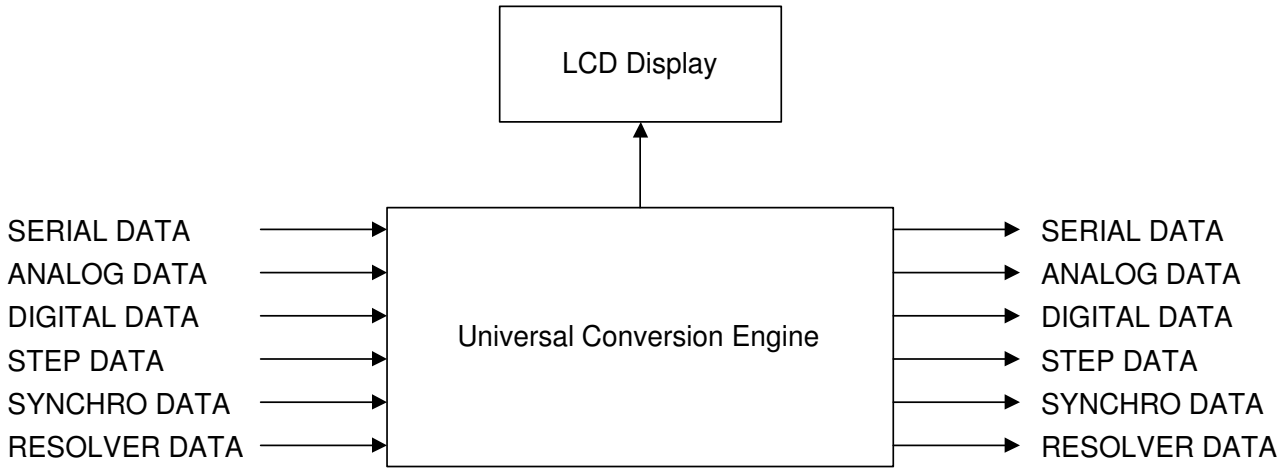
Chart



During power up or reset, an onboard microcontroller reads the configuration switch, configures the interface card, and provides all signals and control necessary to read the desired interface, process and display the data, and output the converted data.

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BBG-2000E/O Product Specifications

Technical Specifications

Parameter	Value	Units
Power Supply	5	Volts
	500	MiliAmps
Temperature Range Operating Storage		
	0 to +50	C°
	-65 to +150	C°
Input/Output		
Synchro	90 and 11.8	Volts
	0-2000	Hertz
Resolver	6.8	Volts
	0-2000	Hertz
Serial message	NMEA-0183	
Serial Protocol	RS-232/422/423/485 or MIL-STD-188C	
Step	6 Step/Degree, 12 Step/Degree	
Digital	16 bit	TTL
	70	Vdc
Analog	0/+5, -5/+5, -10/+10	Volts
Accuracy	+/-2	arc minutes
Dimensions	8.0W x 10.0H x 5.0D	in
	203.2 x 25.4 x 12.7	cm

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