

**Product Information for the BBG-ACP/ARP
Radar Azimuth Converter Card**

The BBG-ACP/ARP is an ISAbus compatible card which interfaces to any slot of an IBM PC or clone. The BBG-ACP/ARP accepts the Azimuth Reference Signal from a radar system and the ownship heading information to compute the TRUE and RELATIVE Azimuth Reference Pulses and the Azimuth Change Pulses. These signals, combined with the radar video signal, enable display of the radar situation picture on many commercial and military radar consoles.

The BBG-ACP/ARP is a "SMART" interface due to the onboard processor which communicates with the PCbus through shared memory, thus, requiring minimum PC processor time. Ownship heading information can be inputted over the PCbus, via synchro/resolver inputs, or over a serial interface. The BBG-ACP/ARP serial message format uses the NMEA 0183 message structures and supports RS-232, RS-422, RS-423, RS-485, and MIL-STD-188C protocols.

DC power is supplied by the PCbus requiring no external power supplies. In situations not requiring a PC interface, the BBG-ACP/ARP operates in a "STAND-ALONE" mode. With the addition of an external +5 volt power supply, the onboard processor accepts the ARP and heading information to compute true and relative azimuth signals without the requirement of a PCbus.

Radar signals, reference inputs, and serial outputs are available on a 50 pin male (DB50P) connector.

IBM PC COMPATIBLE

**INPUTS:
AZIMUTH REFERENCE PULSE
VIA DISCRETE OR SYNCHRO
OWNSHIP'S HEADING VIA
PCbus, SYNCHRO/RESOLVER
OR SERIAL**

**TRUE OR RELATIVE OUTPUTS
AZIMUTH REFERENCE PULSE
AZIMUTH CHANGE PULSE**

**STAND-ALONE MODE
WITH ADDITIONAL +5V
POWER SUPPLY**

**CUSTOM IMPLEMENTATIONS
AVAILABLE UPON REQUEST**

