

Interference Blanker Units (IBU)



GE Aviation has been developing and manufacturing IBUs for greater than 40 years and has fielded more than 6,000 systems. The function of the IBU is to coordinate the operation of the aircraft's onboard transmitters and receivers to prevent mutual interference and/or receiver damage when operating on multiple overlapping frequencies. The IBU provides interference blanking between components of the defensive systems and the communications-navigation systems on the aircraft. It also provides the suppression of undesired signals for singular system installations.



GE Aviation IBUs can be tailored to meet any application. Units are available in both a pre-configured or programmable model. Considered a standard for the DoD, GE IBUs are installed on the majority of the medium and heavy lift helicopter fleet. They are also installed on numerous fixed-wing transport aircraft such as various C-130 models including the C-130J.

Features

- ◆ Input Signals - See Tables
- ◆ Output Signals - See Tables
- ◆ Output Pulse Conditioning
- ◆ Input Power Requirement - 115VAC, 400Hz, single phase
- ◆ Low Power - <12Watt Dissipation
- ◆ Standard Blanking & RS-422 I/O
- ◆ Flexible I/O Matrix & Impedance Matching
- ◆ Weight - See Page 2
- ◆ Reliability - >22,000 MTBF
- ◆ Cooling - Convection
- ◆ Built-In-Test
- ◆ Mil-Std-1553 Bus



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Each aircraft transmitter issues a “Blanking Request” discrete prior to activation of its RF output stage. The IBU detects these “Blanking Request” signals and issues a discrete “Blanking Output” signal to any receiver operating on overlapping frequency bands. Units can be tailored to meet any application. Part Numbers 1020000G3, 1030000G3, and 2410000G1/G2/G3 are programmable to satisfy multiple system design requirements. The output signals can have multiple externally reprogrammable functions from the input signals (Pulse Extensions, Pulse Delays and Combinations of Extensions/Delays).

Model	Inputs	Outputs	Application
Low I/O Count Blanker(s) 9.58” x 6.89” x 2.77”, 3 lbs.			
4F7	10	12	Heavy Lift Helicopter
4R6	10	12	Medium Lift Helicopter



Part Number: 2410000G*

Model	Inputs	Outputs	Application
High I/O Count Blanker(s) 9.36” x 6.40” x 4.65”, 8 lbs.			
4D4	20	24	ISR Fixed Wing
4H6	20	24	Fixed Wing Transport
4Q7	20	24	Fixed Wing Special Operations
4D1	20	24	Medium Lift Helicopter
4E6	16	24	ISR Fixed Wing



Part Number: 1020000G*



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*Multiple Configurations