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Title: A Design for Automatic Test System of Missile Control System Based on PXI Bus

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关键词: 自动测试系统; PXI总线; 故障诊断

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摘要: 针对某型导弹火控系统部件多,结构复杂,测试困难等问题,文中采用开放式平台结构,设计了以PXI总线为平台的自动测试系统,实现了导弹火控系统的自动测试,完成了对导弹火控系统各部件的状态检测、故障模拟、故障诊断与定位。实践表明:该系统具有易操作、测试精度高、便于扩展等优点,具备一定的通用性,提高了测试的效率。

Abstract: Aimed at the problems of one missile control system, including many components, complex structure and difficult test, an automatic test system(ATS)which adopts an open platform structure was designed for missile control system based on PXI bus. The ATS of the missile control system actualizes the performance test,fault simulation,fault diagnosis and fault location of the parts of the missile control system. Experiments show that the developed ATS with high precision is easy to operate, upgrade and generalize, improving the test efficiency mostly.