ZY 8DN04-T1 Single Redundant Flight Control Computer

- The CPU is powered by NXP POWERPC P1010, with a maximum main frequency of 800MHz
- DDR3 has a capacity of 1GB, ROM 1GB, NVSRAM 256KB and FLAHS 16Gb*8bit
- 5-channel RS422 interface, 2-channel RS232 interface
- 16-channel discrete input interface, 16-channel discrete output interface (discrete type configurable)
- 8-channel analog input interface, 8-channel analog output interface
- 5-channel PWM output interface
- 1 channel CAN communication interface (reserved)
- 1 channel synchronous input and 1 channel synchronous output interface (reserved)
- 1 channel CCDL input 1 channel CCDL output (reserved)
- Channel fault logic handling
- 1 channel 100M/1000M Ethernet
- A set of DIF interfaces
- Flight parameter record
- Support for BIT testing
- Support VxWorks real-time operating system

Product Description

ZY8DN04-T1 Single Redundant Flight Control Computer is based on the analysis of similar products at home and abroad, and combined with the latest technical development trend as well as the latest needs of users. ZY8DN04-T1 takes NXP's high-performance low-power processor P1010 as its core, supports VxWorks real-time operating system, and provides rich peripheral interfaces, flight parameter recording and other flight control computer proprietary functions. ZY8DN04-T1 is suitable for airborne, shipborne and vehicle-mounted applications in harsh working environments.

Working Environment

Temperature range........... -10℃～65℃
Relative humidity............. 5％～95％, no condensation
Shock vibration............... 5g

General Specification

Case material........... Aviation aluminum alloy

Typical Applications

Construction of automatic testing system
Laboratory automation, research and design verification