

CPLD chip relay protection



Overview

It is a device that provides comprehensive protection for single-phase leakage or single-phase grounding, short circuit, overcurrent, insulation monitoring, over-voltage and under-voltage faults of underground cables and electrical equipment. Our portfolio of Electrically Programmable Logic Devices (EPLDs) includes two major product categories: Simple Programmable Logic Devices (SPLDs) and higher-density Complex Programmable Logic Devices (CPLDs). The main building block of the CPLD is a macrocell, which contains logic. A microcomputer protection device refers to a digital relay protection device composed of a microcomputer system. If you've ever stared at a board and thought, "I just need something to decode addresses, gate signals, manage resets, and. The hardware circuit is mainly divided into three modules: signal acquisition module, CPLD logic processing module and thyristor control and protection module. Signal acquisition is to convert the AC signal and its state into a processable weak current signal, and transmit it to the logic processor. The Atmel CPLD Development/Programmer Kit (P/N: ATF15xx-DK2) is a complete development system and an In-System Programming (ISP) programmer for the ATF15xx family of industry-standard pin-compatible Complex Programmable Logic Devices (CPLDs) with Logic Doubling™ features.

Article Content

Jul 06, 2026

Complex Programmable Logic Device (CPLD) Guide

A CPLD is often the hardware referee that prevents buses from fighting, ensures resets occur in the right order, and makes multiple chips behave like a team instead of rival factions.

Apr 14, 2026

Research on Accelerated Life Testing and Reliability Prediction ...

This paper first analyzes the failure modes and mechanisms of typical relay protection devices. Based on this analysis, a targeted accelerated life testing plan is proposed, with three temperature stress ...

May 08, 2026

SPLD/CPLDs | Microchip Technology

Our CPLDs can be used for I/O expansion as well as for memory, control and interfacing with different types of memories such as compact Flash or mobile SDRAM. The ATF15xxAS/ASL/ASV/ASVL ...

Nov 11, 2025

CPLD-based protection relay in AC and open-phase protection system

The invention provides a CPLD-based protection relay in AC (Alternating Current) and an open-phase protection system.

Oct 22, 2025

Application of CPLD in Microcomputer-based Protection Device for ...

The simulation result verified correctness of the CPLD logic circuits. The application of the circuits in the microcomputer-based protection device also showed their flexibility and stability.

Feb 07, 2026

CPLD realization of frequency measure in digital relay protection ...

CPLD realization of frequency measure in digital relay protection equipment powered by DSP is introduced and the merit of high integration, high speed, and high reliability in frequency ...

Dec 01, 2025

CN104678860A

The invention provides a CPLD-based protection relay in AC (Alternating Current) and an open-phase protection system.

Mar 28, 2026

CPLD Anti-interference Design of Microcomputer Protection Control ...

Abstract: This paper introduces a method of using VHDL to design the control interface of a microcomputer protection system on a CPLD chip to improve the anti-interference performance.

Nov 20, 2025

Complex programmable logic device

A complex programmable logic device (CPLD) is a programmable logic device with complexity between that of programmable array logic (PAL) and field-programmable gate arrays (FPGA), and ...

Aug 28, 2025

Complex programmable logic device

A complex programmable logic device (CPLD) is a programmable logic device with complexity between that of programmable array logic (PAL) and field-programmable gate arrays (FPGA), and architectural features of both. The main building block of the CPLD is a macrocell, which contains logic implementing disjunctive normal form expressions and more specialized logic operations.

Jul 08, 2026

CPLD Development/Programmer Kit User Guide

The VCC Select Jumper, labeled VCC Select, on the CPLD Development/Programmer Board is a two-position jumper that allows the users to select the VCC voltage level (either 3.3V or 5.0V) used by ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

