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APPLICATION NOTE 3953

Side-by-Side Comparison of Fiber-Monitoring and Control ICs

Dec 04, 2006

Abstract: This application note presents parts designed for fiber monitoring and optical control. Although the products have a broad range of capabilities, some of those features are most important for the optical control and monitoring markets. This note charts those features for easy comparison.

Introduction

Maxim offers a variety of products for fiber optical control and monitoring. These devices are suitable for applications using fiber-optic standards such as SFP, XFP, SFF, GBIC, and PON, and are compatible with various drivers. The products have a broad range of features optimized to best suit the customer's application requirements.

Side-by-Side Comparison

Tables 1 and **2** list the important features of each fiber-monitoring and control product. These tables allow the engineer to easily view which options are important to an application, and to choose the best device for his project. To learn more about these devices and to download their data sheets, visit the Fiber Monitoring and Control Products page.

The products in Table 1 can be used in fiber-optic applications that meet the SFF-8472 MSA, XFP (DS1862), and PON (DS1863) standards.



Table 1. Comparison of Products for SFF, XFP, and PON Standards

The products in Table 2 can be used to control bias and modulation current.





Questions/comments/suggestions concerning this application note can be sent to: MixedSignal.Apps@maximintegrated.com.

Related Parts			
DS1847	Dual Temperature-Controlled NV Variable Resistor	Free Samples	
DS1848	Dual Temperature-Controlled NV Variable Resistor & Memory	Free Samples	
DS1855	Dual Nonvolatile Digital Potentiometer and Secure Memory	Free Samples	
DS1856	Dual, Temperature-Controlled Resistors with Internally	Free Samples	

	Calibrated Monitors and Password Protection	
DS1859	Dual, Temperature-Controlled Resistors with Internally Calibrated Monitors	Free Samples
DS1862	XFP Laser Control and Digital Diagnostic IC	Free Samples
DS1863	Burst-Mode PON Controller With Integrated Monitoring	Free Samples
DS1864	SFP Laser Controller and Diagnostic IC	Free Samples
DS1865	PON Triplexer Control and Monitoring Circuit	Free Samples
DS3901	Triple, 8-Bit NV Variable Resistor with Dual Settings and User EEPROM	Free Samples
DS3902	Dual, NV, Variable Resistors with User EEPROM	Free Samples

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