

Reference Design Creates SFP Optical Modules



Incorporating the recently PHY1040 laser transceiver and limiting amplifier IC and an off-the shelf 8-bit microcontroller with embedded flash, a hardware and software reference design from Phyworks can create Small Form-factor Pluggable 125 Mbps to 1.25 Gbps optical modules with digital configuration and monitoring capability. The system architecture allows users to configure the PHY1040 in software to meet specific optics and network requirements and to create custom solutions fully compliant with the SFF8472 standard. The GUI can configure the kit's firmware via a two-wire interface to match the requirements of either VCSEL or FP and DFB lasers. Programmable device parameters include VSCSEL/Laser operation, bias and modulation current, transmit power, control loop, receive path filters and loss of signal (LOS). Users can configure their firmware to monitor module temperature, power supply, laser bias current, average transmitted power, and average received power.

Phyworks

+44 117 344 5072, www.phyworks-ic.com [1]

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