Group14 TECHNOLOGIES, LLC

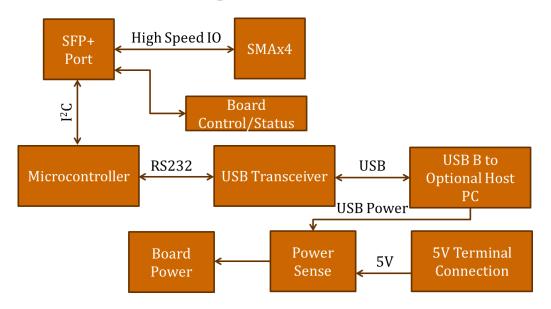
Product Brief SFP+ Breakout

Features

- SFP & SFP+ MSA Compliant
- >10Gbps signal capable: uses FR-408 Dielectric
- SMA connections to high speed lines
- USB control with CLI and GUI support (FTDI USB RS232 transceiver)
- Manual board level control and status
- Fully scriptable CLI
- Windows and Linux Support
- Autosensing 5V supply power or USB powered



SFP + Breakout Block Diagram



Overview

The SFP+ Breakout is an interface board designed to connect the high speed lines of an SFP or SFP+ module to SMA connectors for test and evaluation. In addition to high speed breakout, the unit can be controlled via a powerful command line interface or GUI which can control all aspects of the SFP+ module per SFF-8472 and SFF-8431. Physical switches and LED status indicators are also on board for when a PC is not convenient or available. The device may be powered via its USB connection or with a 5V supply.



Product Brief SFP+ Breakout

Powerful Software

- Full command line control
- Real time display
- Calibration
- Thresholds
- Pin control
- Full register read/write access including dumps
- Saved configurations
- Written in Java for cross-platform usage

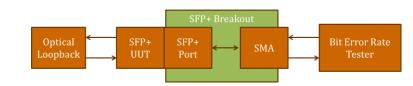
Software GUI

	Connection Help	O S/W Contr	ntrol 💿 HW Control 📝 RS0 📝 RS1 📃 TX Disabled 📃 SFP+
Temperatur	re Vcc	Tx Bias	Tx Power Rx Power
24.460938	3.2663999	5 9680004	0.5779 0.0
Base ID Field:	s Extended ID Fields	Transceiver Calib	ibration Threshold Raw Data
xtend ID Field	Is		Options Implemented
BR. max	0		Cooled Transceiver Power Level
BR. min	0		Linear Receiver Output RATE_SELECT
			TX_DISABLE I TX_FAULT
SFF-8472	Rev 10.3		Signal Detect 🗹 Rx_LOS
Date Code	2011-07-29-		
iagnostics M	ontoring		Enhanced Options Implemented
Legacy (Non-Compliant) 🗹 D	igital (Compliant)	Alarm/Warning Flags
Internally	Calibrated E	demally Calibrated	Soft TX_DISABLE Soft RATE_SELECT
Rx Powe	er-Avg 🗌 R	x Power - OMA	Soft TX_FAULT Soft RX_LOS
Address Switching (Not Supported)		4)	App. Select Control (SFF-8079)
			Soft Rate Select (SFF-8431)

Uses

- SFP+ Evaluation
- Add optical interconnection to existing evaluation system
- Link evaluation
- Production testing
- Link break tests

Typical Application



What's In the Box

- SFP+ Breakout Board
- USB Cable
- Developer's CD-ROM
 - User's Guide
 - Schematics
 - Bill of Materials
 - GUI software and source code
 - Drivers
 - Field reprogramming software

Ordering & Contact Information

- SFP+ Breakout part number: SFP2SMA
- Sales phone: (937) 985-4140
- Sales email: contactus@group14tech.com
- Web: http://www.group14tech.com