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Optical Network Transceiver Innovator

GHB-353G-L4xD

3Gbps Video BIDI SFP Optical Transceiver, 40km Reach 1310nm TX / 1550 nm RX

Features

- ♦ HD-SDI Bi-Directional SFP Transceiver available
- ♦ SD-SDI Bi-Directional SFP Transceiver available
- ♦ 3G-SDI Bi-Directional SFP Transceiver available
- ♦ SMPTE 297-2006 Compatible.
- Metal enclosure for Lower EMI
- 1310nm DFB laser and PIN photodetector
- Supports video pathological patterns for SD-SDI, HD-SDI and 3G-SDI
- Compliant with SFP MSA and SFF-8472 with simplex LC receptacle
- Digital Diagnostic functions available through the I2C interface
- Compatible with RoHS
- ♦ +3.3V single power supply
- Operating case temperature:

Standard: 0 to +70°C Industrial: -40 to +85°C



Applications

- ♦ SMPTE 297-2006 Compatible Electrical-to-Optical Interfaces.
- HDTV/SDTV Service Interfaces.

Description

Address: 5F, Main Building SheKou Technology Building, No.1067 Nanhai Blvd, Nanshan District, Shenzhen

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Page 1 of 16 June 27 / 2012 Rev.1.0



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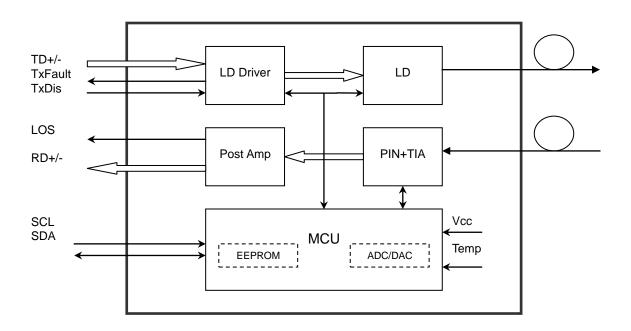
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The video series transceivers are high performance, cost effective modules for simplex video transmission application over single mode fiber.

The transceiver is designed to transmit/receive data rates from 50Mbps to 2.97Gbps and is specifically designed for robust performance in the presence of SDI pathological patterns for SMPTE 259M, SMPTE 344M, SMPTE 292M and SMPTE 424M serial rates. The module is fully compliant with SMPTE 297M-2006.

The transceiver consists of three sections: a DFB laser transmitter, a PIN photodiode integrated with a trans-impedance preamplifier (TIA) and MCU control unit. All modules satisfy class I laser safety requirements.

The transceivers are compatible with SFP Multi-Source Agreement (MSA) and SFF-8472. For further information, please refer to SFP MSA.



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage	Vcc	-0.5	4.5	V

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Page 2 of 16 June 27 / 2012 Rev.1.0



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Storage Temperature	Ts	-40	+85	°C
Operating Humidity	-	5	85	%

Recommended Operating Conditions

Parameter		Symbol	Min	Typical	Max	Unit
Operating Case Temperature	Standard	Tc	0		+70	°C
Industrial			-40		+85	°C
Power Supply Voltage)	Vcc	3.13	3.3	3.47	V
Power Supply Curren	t	Icc			450	mA
Data Rate				3		Gbps

Optical and Electrical Characteristics

Para	meter	Syn	nbol	Min	Typical	Max	Unit	Notes
				Transmitter				
Ce	Centre Wavelength		λс	1260	1310	1360	nm	
Spe	ctral Width (-20)dB)	σ			1	nm	
Side Mo	ode Suppressio	n Ratio	SMSR	30			dB	
Ave	rage Output Po	ower	Pout	-2	0	+3	dBm	1
E	Extinction Ratio)	ER	5	8		dB	
D: /5	SD-S Rise/Fall Time (20%~80%)		. 7.0			1500		
			tr/tf			270	ps	2
(=0 //	<i>-</i> - - - - - - - - - -	3G-SDI				135		
	PRBS and	SD-SDI			70	200		
	colour	HD-SDI			50	135		
Total	bar	3G-SDI			70	100	no	
Output Jitter		SD-SDI			200	300	ps	
	pathological	HD-SDI			115			
		3G-SDI			120			

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Page 3 of 16 June 27 / 2012 Rev.1.0



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Data Inp	put Swing Diff	erential	V _{IN}	400		1800	mV	3
Input Di	ifferential Imp	edance	Z _{IN}	90	100	110	Ω	
TX Disable	Disable (Disable			2.0		Vcc	V	
I A DISAble	Enable			0		0.8	V	
TX Fault	Fa	ult		2.0		Vcc	V	
TA Fault	Nor	mal		0		0.8	V	
				Receiver				
Ce	ntre Wavelen	gth	λς	1480		1580	nm	
		SD-SDI				-22	dBm	
Receiver Sensitivity		HD-SDI				-21	dBm	
(PR	BS)	3G-SDI				-18	dBm	
		SD-SDI				-22	dBm	
Receiver S	Sensitivity	HD-SDI				-21	dBm	
(Pathol	ogical)	3G-SDI				-18	dBm	
Re	ceiver Overlo	ad		0			dBm	4
L	.OS De-Asser	t	LOS _D			-22	dBm	
	LOS Assert		LOSA	-29			dBm	
L	OS Hysteresi	S		1		4	dB	
Data Ou	tput Swing Dit	fferential	Vout	650	800	1000	mV	3
			High	2.0		Vcc	V	
	LOS		Low			0.8	V	

Notes:

- 1. The optical power is launched into SMF.
- 2. Rise and fall times, 20% to 80%, are measured following a fourth-order Bessel-Thompson filter with a bandwidth of 0.75 x clock frequency corresponding to the serial data rate
- 3. PECL input, internally AC-coupled and terminated.
- 4. Internally AC-coupled.

Timing and Electrical

Parameter	Symbol	Min	Typical	Max	Unit
-----------	--------	-----	---------	-----	------

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Page 4 of 16 June 27 / 2012 Rev.1.0



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Tx Disable Negate Time	t_on		1	ms
Tx Disable Assert Time	t_off		10	μs
Time To Initialize, including Reset of Tx Fault	t_init		300	ms
Tx Fault Assert Time	t_fault		100	μs
Tx Disable To Reset	t_reset	10		μs
LOS Assert Time	t_loss_on		100	μs
LOS De-assert Time	t_loss_off		100	μs
Serial ID Clock Rate	f_serial_clock		400	KHz
MOD_DEF (0:2)-High	V _H	2	Vcc	V
MOD_DEF (0:2)-Low	V _L		0.8	V

Diagnostics Specification

Parameter	Range	Unit	Accuracy	Calibration	
Temperature	0 to +70	°C	±3°C	Internal / External	
remperature	-40 to +85		±3 0	internar/ Externar	
Voltage	3.0 to 3.6	V	±3%	Internal / External	
Bias Current	0 to 100	mA	±10%	Internal / External	
TX Power	-5 to 0	dBm	±3dB	Internal / External	
RX Power	-20 to -6	dBm	±3dB	Internal / External	

I2C Bus Interface

The I2C bus interface uses the 2-wire serial CMOS E2PROM protocol. The serial interface meets the following specifications:

- 1. Support a maximum clock rate of 280Khz.
- 2. Input/Output levels comply with LVCMOS/LVTTL or compatible logics.

Low: 0 – 0.8 V High: 2.0 – 3.3 V Undefined: 0.8 – 2.0 V

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Page 5 of 16 June 27 / 2012

Rev.1.0



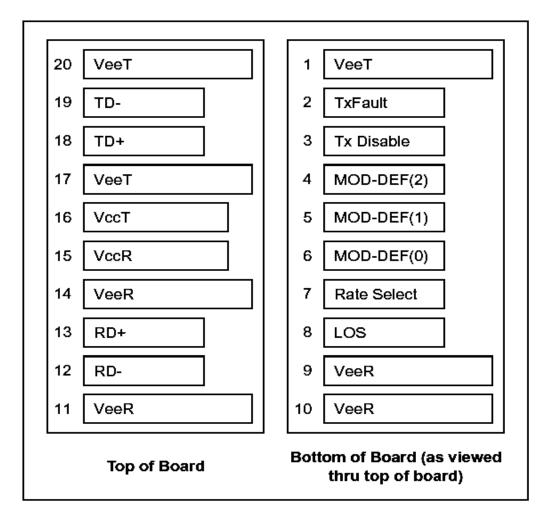


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Pin Definitions

Pin Diagram



Pin Descriptions

Pin	Signal Name	Description	Plug Seq.	Notes
1	V_{EET}	Transmitter Ground	1	
2	TX FAULT	Transmitter Fault Indication	3	Note 1
3	TX DISABLE	Transmitter Disable	3	Note 2



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MOD_DEF(2)	SDA Serial Data Signal	3	Note 3
MOD_DEF(1)	SCL Serial Clock Signal	3	Note 3
MOD_DEF(0)	TTL Low	3	Note 3
Rate Select	Not Connected	3	
LOS	Loss of Signal	3	Note 4
V _{EER}	Receiver ground	1	
V_{EER}	Receiver ground	1	
V _{EER}	Receiver ground	1	
RD-	Inv. Received Data Out	3	Note 5
RD+	Received Data Out	3	Note 5
V_{EER}	Receiver ground	1	
V_{CCR}	Receiver Power Supply	2	
V _{CCT}	Transmitter Power Supply	2	
V_{EET}	Transmitter Ground	1	
TD+	Transmit Data In	3	Note 6
TD-	Inv. Transmit Data In	3	Note 6
V _{EET}	Transmitter Ground	1	
	MOD_DEF(1) MOD_DEF(0) Rate Select LOS VEER VEER VEER RD- RD+ VCCR VCCT VEET TD+ TD-	MOD_DEF(1) SCL Serial Clock Signal MOD_DEF(0) Rate Select LOS Loss of Signal Veer Receiver ground Veer Receiver ground Veer Receiver ground RD- Inv. Received Data Out Veer Receiver ground Veer Receiver ground To- Transmitter Power Supply Inv. Transmit Data In Inv. Transmit Data In	MOD_DEF(1) SCL Serial Clock Signal 3 MOD_DEF(0) TTL Low 3 Rate Select Not Connected 3 LOS Loss of Signal 3 VEER Receiver ground 1 VEER Receiver ground 1 VEER Receiver ground 1 RD- Inv. Received Data Out 3 RD+ Receiver ground 1 VEER Receiver ground 1 VCCR Receiver Power Supply 2 VCCT Transmitter Power Supply 2 VEET Transmitter Ground 1 TD+ Transmit Data In 3 TD- Inv. Transmit Data In 3

Notes:

Plug Seq.: Pin engagement sequence during hot plugging.

- 1) TX Fault is an open collector output, which should be pulled up with a 4.7k~10kΩ resistor on the host board to a voltage between 2.0V and Vcc+0.3V. Logic 0 indicates normal operation; Logic 1 indicates a laser fault of some kind. In the low state, the output will be pulled to less than 0.8V.
- 2) TX Disable is an input that is used to shut down the transmitter optical output. It is pulled up within the module with a $4.7k\sim10k\Omega$ resistor. Its states are:

Low (0 to 0.8V): Transmitter on (>0.8V, < 2.0V): Undefined

High (2.0 to 3.465V): Transmitter Disabled Open: Transmitter Disabled

- 3) Mod-Def 0,1,2. These are the module definition pins. They should be pulled up with a 4.7k~10kΩ resistor on the host board. The pull-up voltage shall be VccT or VccR.
 - Mod-Def 0 is grounded by the module to indicate that the module is present
 - Mod-Def 1 is the clock line of two wire serial interface for serial ID
 - Mod-Def 2 is the data line of two wire serial interface for serial ID
- 4) LOS is an open collector output, which should be pulled up with a 4.7k~10kΩ resistor. Pull up voltage between 2.0V and Vcc+0.3V. Logic 1 indicates loss of signal; Logic 0 indicates normal operation. In the low state, the output will be pulled to less than 0.8V.
- 5) RD-/+: These are the differential receiver outputs. They are internally AC-coupled 100 differential lines which should be terminated with 100Ω (differential) at the user SERDES.

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Page 7 of 16 June 27 / 2012 Rev.1.0



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6) TD-/+: These are the differential transmitter inputs. They are internally AC-coupled, differential lines with 100Ω differential termination inside the module.

Serial ID Field Memory Map

The module serial Id and calibration information is stored in the E2PROM of the SFP supervising device

using the address map.

Byte Addr	Bit Size	Name	Description	Value (hex)
0	1	Identifier	Type of transceiver	82
1	1	Ext. Identifier	Extended identifier of type of transceiver	04
2	1	Connector	Code for connector type	07
3	1	Standards Compliance	For SMPTE259M/344M/292M/424M and SMPTE	41
4				
5				
6				
7	7	Transceiver	Code for electronic or optical compatibility, Not applicable.	
8			Tet applicable.	
9				
10				
11	1	Encoding	Code for serial encoding algorithm	30
12	1	BR, Nominal	Nominal signalling rate, units of 100MBd.	1E
13	1	Rate Identifier	Type of rate select functionality, Not applicable	
14	1	Length(SMF,km)	Link length supported for single mode fiber, units of km	14
15	1	Length (SMF)	Link length supported for single mode fiber, units of 100 m	00
16	1	Length (50um)	Link length supported for 50 um OM2 fiber, units of 10 m	00
17	1	Length (62.5um)	Link length supported for 62.5 um OM1 fiber, units of 10 m	00
18	1	Length (cable)	Link length supported for copper or direct attach cable, units of m	00
19	1	Length (OM3)	Link length supported for 50 um OM3 fiber, units of 10 m	00
20	16	Vendor name	SFP vendor name (ASCII)	Χ

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Page 8 of 16 June 27 / 2012 Rev.1.0



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21 22	
22	X
22	Х
23	X
24	X
25	X
26	X
27	Х
28	X
29	Х
30	Х
31	Х
32	X
33	X
34	X
35	X
36 1 Reserved Reserved	00
37	00
38 3 Vendor OUI SFP vendor IEEE company ID	00
39	00
10	
40	X
40 41	X
41	X
41 42	X X
41 42 43	X X X
41 42 43 44 45	X X X
41 42 43 44 45	X X X X
41 42 43 44 45 46 16 Vendor PN Part number provided by SEP vendor (ASCII)	X X X X X
41 42 43 44 45 46 47 16 Vendor PN Part number provided by SFP vendor (ASCII)	X X X X X
41 42 43 44 45 46 47 48 Vendor PN Part number provided by SFP vendor (ASCII)	X X X X X X
41 42 43 44 45 46 47 48 49 Vendor PN Part number provided by SFP vendor (ASCII)	X X X X X X X
41 42 43 44 45 46 47 48 49 50	X X X X X X X

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Page 9 of 16 June 27 / 2012

Rev.1.0



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54				X
55				
56				
57	4		Revision level for part number provided by vendor (ASCII)	V
58	4	Vendor rev		Х
59				
60	_		Laser wavelength (Passive/Active Cable	
61	2	Wavelength	Specification Compliance)	
62	1	Unallocated		
63	1	CC_BASE	Check code for Base ID Fields	
64	0	Ontions	Indicates which optional transceiver signals are	
65	2	Options	implemented	
66	1	BR, max	Upper bit rate margin, units of %	05
67	1	BR, min	Lower bit rate margin, units of %	5F
68		6 Vendor SN	Serial number provided by vendor (ASCII)	Х
69	69 70			X
				Χ
71				X
72				X
73				X
74 75				X
76	16			X
77				X
78				X
79				Х
80				Х
81				X
82				X
83				X
84				
85	0	Deterrale	Vendor's manufacturing date code	
86	8	Date code		
87				
88				

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Page 10 of 16 June 27 / 2012 Rev.1.0



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89				
90				
91				
31		Diagnostic Monitoring	Indicates which type of diagnostic monitoring is	
92	1	Diagnostic Monitoring Type	Indicates which type of diagnostic monitoring is implemented(if any) in the transceiver	28
93	1	Enhanced Options	Indicates which optional enhanced features are implemented(if any) in the transceiver	90
94	1	SFF-8472Compliance	Indicates which revision of SFF-8472 the transceiver complies with.	X
95	1	CC_EXT	Check code for the Extended ID Fields	
96				0
97				0
98				0
99				0
100				0
101				0
102				0
103				0
104				0
105				0
106				0
107				0
108				0
109	32	Vendor Specific	Vendor Specific EEPROM	0
110		·	·	0
111				0
112				0
113				0
114 115				0
116				0
117				0
118				0
119				0
120				0
121				0
122				0
123				0

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Page 11 of 16 June 27 / 2012

Rev.1.0



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_		
124		0
125		0
126		0
127		0

Digital Diagnostic Monitoring Interface (2-Wire Address A2H)

Byte Addr	Bit Size	Name	Description and Value of the Field
00-01	2	Temp High Alarm	MSB at lower address. 100°C
02-03	2	Temp Low Alarm	MSB at lower address50°C
04-05	2	Temp High Warning	MSB at lower address. 95°C
06-07	2	Temp Low Warning	MSB at lower address45°C
08-09	2	Voltage High Alarm	MSB at lower address. 3.7V
10-11	2	Voltage Low Alarm	MSB at lower address. 2.9V
12-13	2	Voltage High Warning	MSB at lower address. 3.6V
14-15	2	Voltage Low Warning	MSB at lower address. 3.0V
16-17	2	Bias High Alarm	MSB at lower address. 70mA
18-19	2	Bias Low Alarm	MSB at lower address. 8mA
20-21	2	Bias High Warning	MSB at lower address. 65mA
22-23	2	Bias Low Warning	MSB at lower address. 9mA
24-25	2	TX Power High Alarm	MSB at lower address. 4dBm
26-27	2	TX Power Low Alarm	MSB at lower address6dBm
28-29	2	TX Power High Warning	MSB at lower address. 3dBm
30-31	2	TX Power Low Warning	MSB at lower address5dBm
32-33	2	RX Power High Alarm	MSB at lower address. 1dBm
34-35	2	RX Power Low Alarm	MSB at lower address25dBm
36-37	2	RX Power High Warning	MSB at lower address. 0dBm
38-39	2	RX Power Low Warning	MSB at lower address24dBm
40-55	16	Reserved	Reserved
56-59	4	RX_PWR (4)	Set to zero for "internally calibrated" devices, Value is 00 00 00 00.

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Page 12 of 16 June 27 / 2012 Rev.1.0



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60-63	4	RX_PWR (3)	Set to zero for "internally calibrated" devices. Value is 00 00 00 00.
64-67	4	RX_PWR (2)	Set to zero for "internally calibrated" devices. Value is 00 00 00 00.
68-71	4	RX_PWR (1)	Set to 1 for "internally calibrated" devices. Value is 3F 80 00 00.
72-75	4	RX_PWR (0)	Set to zero for "internally calibrated" devices. Value is 00 00 00 00.
76-77	2	TX_I (Slope)	Set to 1 for "internally calibrated" devices. Value is 01 00.
78-79	2	TX_I (Offset)	Set to zero for "internally calibrated" devices. Value is 00 00.
80-81	2	TX_PWR (Slope)	Set to 1 for "internally calibrated" devices. Value is 01 00.
82-83	2	TX_PWR (Offset)	Set to zero for "internally calibrated" devices. Value is 00 00.
84-85	2	T (Slope)	Set to 1 for "internally calibrated" devices. Value is 01 00.
86-87	2	T (Offset)	Set to zero for "internally calibrated" devices. Value is 00 00.
88-89	2	V (Slope)	Set to 1 for "internally calibrated" devices. Value is 01 00.
90-91	2	V (Offset)	Set to zero for "internally calibrated" devices. Value is 00 00.
92-94	3	Reserved	Reserved
95	1	Checksum	Checksum of bytes 0 – 94.
96-97	2	Temperature (MSB, LSB)	Internally measured module temperature
98-99	2	Supply Voltage (MSB, LSB)	nternally measured supply voltage in module
100-101	2	Bias()(MSB, LSB)	Internally measured module bias
102-103	2	Tx Power(MSB, LSB)	Internally measured Tx Power Current
104-105	2	Rx Power (MSB, LSB)	Internally Measured Rx Power Current
106-109	4	Reserved	Reserved
110	Bit7	Tx Disable State	Digital state of the TX Disable Input Pin.
110	Bit6	Soft Tx Disable	Bit 6
110	Bit5-Bit3	Reserved	
110	Bit2	Tx Fault	Bit 2

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Page 13 of 16 June 27 / 2012 Rev.1.0



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110	Bit1	LOS	Bit 1
110	Bit0	Data_Ready	Bit 0
111	1	Reserved	Reserved
112	Bit7	Temp High Alarm	Set when internal temperature exceeds high alarm level.
112	Bit6	Temp Low Alarm	Set when internal temperature is below low alarm level.
112	Bit5	Vcc High Alarm	Set when internal supply voltage exceeds high alarm level.
112	Bit4	Vcc Low Alarm	Set when internal supply voltage is below low alarm level.
112	Bit3	TX Bias High Alarm	Set when TX Bias current exceeds high alarm level.
112	Bit2	TX Bias Low Alarm	Set when TX Bias current is below low alarm level.
112	Bit1	TX Power High Alarm	Set when TX output power exceeds high alarm level.
112	Bit0	TX Power Low Alarm	Set when TX output power is below low alarm level.
113	Bit7	RX Power High Alarm	Set when Received Power exceeds high alarm level.
113	Bit6	RX Power Low Alarm	Set when Received Power is below low alarm level.
113	Bit5-Bit0	Reserved Alarm	Reserved
114-115	Reserved		Reserved
116	Bit7	Temp High Warning	Set when internal temperature exceeds high Warning level.
116	Bit6	Temp Low Warning	Set when internal temperature is below low Warning level.
116	Bit5	Vcc High Warning	Set when internal supply voltage exceeds high Warning level.
116	Bit4	Vcc Low Warning	Set when internal supply voltage is below low Warning level.
116	Bit3	TX Bias High Warning	Set when TX Bias current exceeds high Warning level.
116	Bit2	TX Bias Low Warning	Set when TX Bias current is below low Warning level.
116	Bit1	TX Power High Warning	Set when TX output power exceeds high Warning level.

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Page 14 of 16 June 27 / 2012 Rev.1.0



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116	Bit0	TX Power Low Warning	Set when TX output power is below low Warning level.
117	Bit7	RX Power High Warning	Set when Received Power exceeds high Warning level.
117	Bit6	RX Power Low Warning	Set when Received Power is below low Warning level.
117	Bit5-bit0	Reserved Warning	Reserved
118-119	2	Reserved	Reserved
120-127	8	Vendor specific	
128-247	120	User EEPROM	User writable EEPROM
248-255	8	Vendor Specific	Vendor specific control functions

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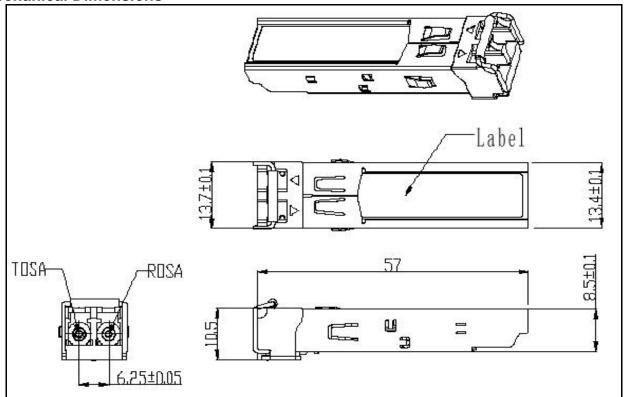
Page 15 of 16 June 27 / 2012 Rev.1.0



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Mechanical Dimensions



Ordering information

Part Number		Product Description
GHP-353G-L4CD	1310nm, 3Gbps, 40km,	0°C ~ +70°C, With Digital Diagnostic Monitoring
GHP-353G-L4TD	1310nm, 3Gbps, 40km,	-40°C ~ +85°C ,With Digital Diagnostic Monitoring

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Page 16 of 16 June 27 / 2012 Rev.1.0