

Qkd enable FC 2G encryptor Test report

Job Information

Job ID	1
Contractor	
Customer	
Report Date	2009-06-17 02:14:04
Operator Name	

File Name: D:\Toolbox\User Files\PacketAnalyzer\Reports\Report fc 2g with gcm full 12h.pdf

Comment:

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1. Setup

2. Summary

2.1. Alarm

2.1.1. Alarms

2.1.1.1. Global

Alarm	H
Global	No Fault
Log Full	No Fault

2.1.1.2. Physical

Alarm	H
LOS	No Fault
Frequency	No Fault

Signal Analysis	Value
Pwr (dBm)	-4.9

Frequency Analysis	Value
Freq (bps)	2124987600.0
Offset (ppm)	-6

2.1.1.3. Fibre Channel

Alarm	H
Link	No Fault
Error	No Fault
Fault	N/A

2.1.1.4. Pattern

Alarm	H
Bit Error	No Fault
Pattern Loss	No Fault
No Traffic	No Fault

Error Analysis	Count	Rate
Bit Error	0	0.00E00

2.1.2. Logger**2.1.2.1. Logger Events**

ID	Date/Time	Data Path	Event	Duration	Count	Rate
1	00:00:00	Test 1	Test Started			
2	14:10:34	Test 1	Test Stopped			

2.2. Test**2.2.1. Test Status**

Item	Value
Start Time:	2009-06-16 12:03:20
Port Link	Up

2.2.2. Test Configuration

Item	Value
Interface Type	Fibre Channel
Application Type	BERT
Test Name	TEST1
Test Description	

2.2.3. Clock Configuration

No information is available

2.2.4. Timer Configuration

Item	Value
Start Time Status	Disabled
Start Time	2009-06-15 02:45:19
Stop Time Status	Disabled
Stop Time	2009-06-15 02:45:19
Duration Status	Disabled
Duration	15 minutes
On/Off State	Disabled

3. Optical [P1]/Port

3.1. TX

3.1.1. Signal Analysis

Item	Value
Wavelength (nm)	1310
Output Presence	Active

3.1.2. Alarm Generation

Item	Value
Type	LOS
On/Off	Disabled

3.1.3. Frequency

Item	Value
Frequency Offset (ppm)	0
On/Off	Disabled
Actual Frequency (bps)	2125000000
Nominal Frequency (bps)	2125000000

3.2. RX

3.2.1. Signal Analysis

Item	Value
Power Level (dBm)	-4.9
Input Presence	Active

3.2.2. Alarm Analysis

Alarm	H	Seconds
LOS	No Fault	0
Frequency	No Fault	0

3.2.3. Frequency Analysis

Item	Value
Frequency (bps)	2124987600
Frequency Offset (ppm)	-6
Max. Negative Offset (ppm)	-8
Max. Positive Offset (ppm)	0

3.3. Interface

3.3.1. Configuration

Item	Value
Speed	2X
PSP (Link Protocol)	Enabled

3.3.2. Buffer To Buffer Flow Control

Item	Value
Buffer To Buffer Flow Control	Enabled
Available BB_Credit	10

3.3.3. Login

Item	Value
Advertised BB_Credit	N/A

4. Stream Generation

4.1. Frame Config.

4.1.1. Frame Delimiters

Item	Value
SOF	SOFn3
EOF	EOFt

4.1.2. Frame Parameter

Item	Value
Size	2148
Rate (%)	100.0

4.1.3. FC2 Headers

No information is available

5. Optical [P1]/FC Framed Layer 1/Network/Pattern/Pattern

5.1. Pattern TX

5.1.1. Configuration

5.1.1.1. Test Pattern

Item	Value
Test Pattern	PRBS 2 ³¹ -1
Invert	Disabled

5.1.1.2. User Pattern

No information is available

5.1.1.3. Coupled TX/RX

Item	Value
Coupled TX/RX	Enabled

5.1.2. Alarm Generation

Item	Value
Type	Pattern Loss
On/Off	Disabled

5.1.3. Error Injection

5.1.3.1. Manual

Item	Value
Type	Bit Error
Amount	1

5.1.3.2. Automated

Item	Value
Type	Bit Error
Rate	1.0E-04
Continuous	Disabled
On/Off	Disabled

5.2. Pattern RX**5.2.1. Configuration****5.2.1.1. Test Pattern**

Item	Value
Test Pattern	PRBS 2 ³¹ -1
Invert	Disabled

5.2.1.2. User Pattern

No information is available

5.2.1.3. Coupled RX/TX

Item	Value
Coupled RX/TX	Enabled

5.2.2. Alarm Analysis

Alarm	H	Seconds
Pattern Loss	No Fault	0
No Traffic	No Fault	0

5.2.3. Error Analysis

Alarm	H	Seconds	Count	Rate
Bit Error	No Fault	0	0	0.00E00
Mismatch '0'	No Fault	0	0	0.00E00
Mismatch '1'	No Fault	0	0	0.00E00

5.3. Performance Monitoring

5.3.1. G.821

5.3.1.1. Near-End

Item	Value
EFS	51039
EC	0
ES	0
SES	0
AS	51039
UAS	0
ESR	0.00E00
SESR	0.00E00

6. Traffic Analyzer

6.1. FC TX

6.1.1. Alarm Generation

Item	Value
Type	Link Down
On/Off	Disabled

6.1.2. PHY Error Injection

6.1.2.1. Manual

Item	Value
Type	Symbol
Amount	1

6.1.2.2. Automated

Item	Value
Type	Symbol
Rate	1.0E-04
Continuous	Disabled
On/Off	Disabled

6.1.3. FC Error Injection

6.1.3.1. Manual

No information is available

6.1.3.2. Automated

No information is available

6.2. FC RX

6.2.1. Alarm Analysis

Alarm	H	Seconds
Link Down	No Fault	0
Local Fault	N/A	N/A
Remote Fault	N/A	N/A

6.2.2. Error Analysis

Error	H	Seconds	Count	Rate
Symbol	No Fault	0	0	0.00E00
FCS	N/A	N/A	N/A	N/A
Total Error Count			0	

6.3. Latency**6.3.1. Configuration**

Item	Value
Latency Tag	Disabled

6.3.2. Buffer-To-Buffer Credit

No information is available

6.3.3. Latency Measurement

No information is available

6.4. FC Stats**6.4.1. Traffic Statistics**

	TX Count	RX Count
Frames	4.78E09	4.78E09
Bytes	1.03E13	1.03E13
Bandwidth (%)	95.767198476214347	95.76720230070525

6.5. PM**6.5.1. G.826 OOSM**

6.5.1.1. Near-End

Item	Value
EFS	51040
EB	0
ES	0
SES	0
BBE	0
AS	51040
UAS	0
ESR	0.00E00
SESR	0.00E00
BBER	0.00E00

7. Clock Synchronization

7.1. RX

7.1.1. Configuration

Item	Value
Interface Type	None
Termination Mode	N/A
Line Coding	N/A
Framing	N/A

7.1.2. Alarm Analysis

No information is available

7.1.3. Frequency Analysis

Item	Value
Frequency (bps)	--
Frequency Offset (ppm)	--

7.2. Backplane

7.2.1. Configuration

Item	Value
Clock Mode	Internal
Enable	Disabled

7.2.2. Alarm Analysis

Alarm	State
LOC	No Fault

7.3. Ref Output

7.3.1. Configuration

Item	Value
Clock Out Divider	16

7.3.2. Signal Analysis

Item	Value
Frequency (MHz)	0
Output Presence	Active

8. Module Information

8.1. Installed Software Packages

Software Product	Item	Description
1.0.0.7	SUI Version	1.0.0.7
	Instrument Version	1.0.1.8
	Firmware Version	1.0.1.8
	Boot Version	3.0.0.0

8.2. Module Description

Module ID	Item	Description
FTB-8535	Location	
	Slot ID	2
	Description	
	Assembly Hardware Revision	A
	Serial Number	463345
	Calibration Date	2008-12-02 16:00:00

8.3. Hardware Options

Device Type	Item	Description
SFP	Module ID	FTB-8535
	Port Number	1
	Vendor Name	FINISAR CORP.
	Part Number	FTLF1421P1BCL
	Serial Number	PDQ1QH8
	Revision Number	A
	Connector Type	LC
	Speed	OC-3/STM-1, OC-12/STM-4, OC-48/STM-16/OTU1, 1000Base-LX, FC-1X, FC-2X
	Type	SONET/SDH: Intermediate Reach, FC: Long Distance
	Wavelength	1310 nm
	Mode	SONET/SDH: Single-Mode Fiber, FC: Single-Mode Fiber

9. Software Options

9.1. Available Options

Category	Name	Description	Status
Interface	SK-1000M-E	Ethernet 1000Base-T (Electrical) Interface	Enabled
Interface	SK-1000M-O	Ethernet 1000Base-X (Optical) Interface	Enabled
Interface	SK-100M-E-AP	Ethernet 100Base-TX (Electrical) Interface on All Ports	Enabled
Interface	SK-100M-O-AP	Ethernet 100Base-FX (Optical) Interface on All Ports	Disabled
Interface	SK-10M-E-AP	Ethernet 10Base-T (Electrical) Interface on All Ports	Enabled
Interface	SK-FC-10X	Fibre Channel 10x (Optical) Interface (10Gbps)	Enabled
Interface	SK-FC-1X	Fibre Channel 1x (Optical) Interface (1Gbps)	Enabled
Interface	SK-FC-2X	Fibre Channel 2x (Optical) Interface (2Gbps)	Enabled
Interface	SK-FC-4X	Fibre Channel 4x (Optical) Interface (4Gbps)	Enabled
Interface	SK-LAN	Local Area Network	Enabled
Interface	SK-WAN	Wide Area Network	Enabled