Support Utility User Manual

Version: 1.2

Installation:

Before installation, please make sure you download the latest version of driver/firmware manager/dslMonitor.

1. Hardware installation

Connect USB controller to PC and reference board as figure 1, make sure the cable direction is correct. If the direction is not correct, utility will not work.

2. Driver installation

When PC connect to USB controller, driver installation is requirement. Please select the driver in FTDI_USB_driver

Version X3 DIP:

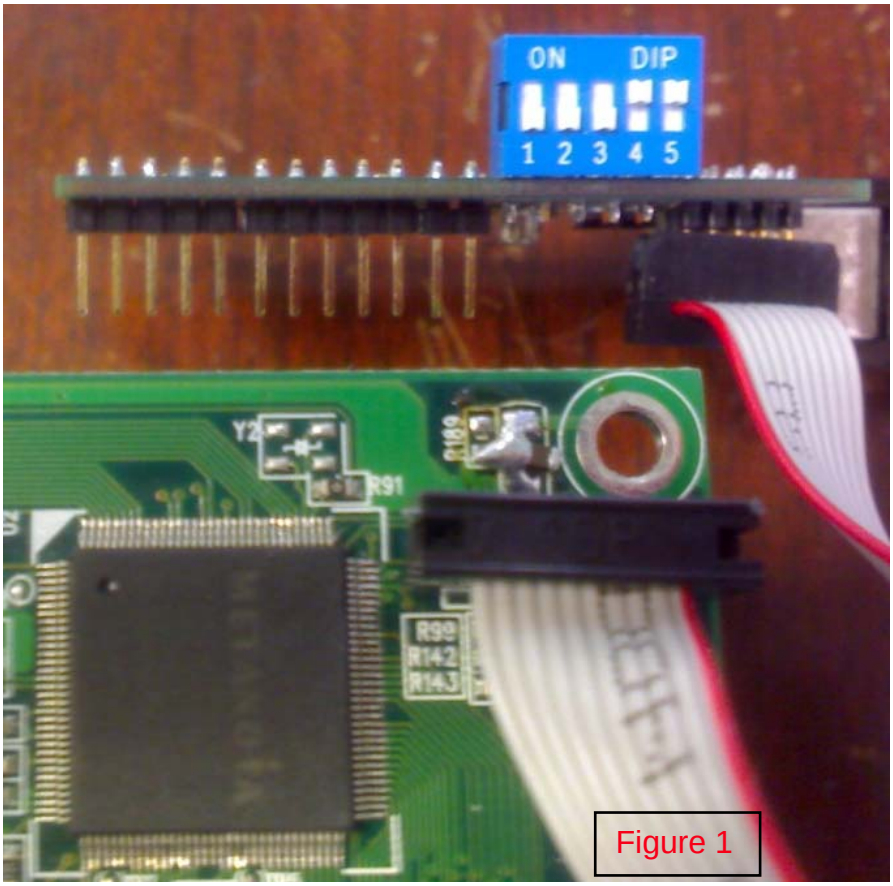
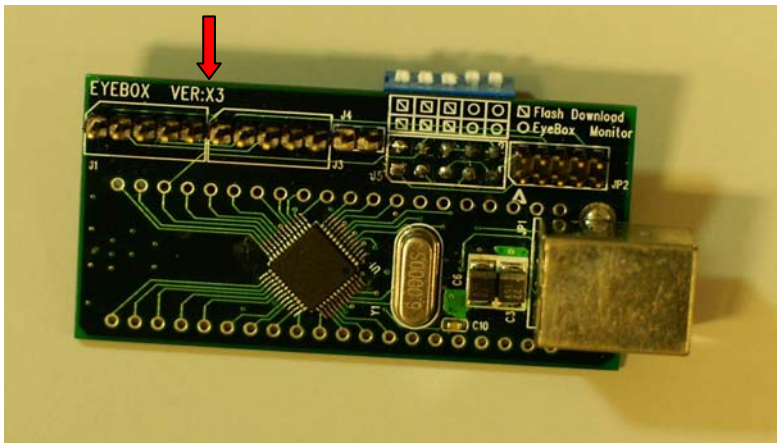
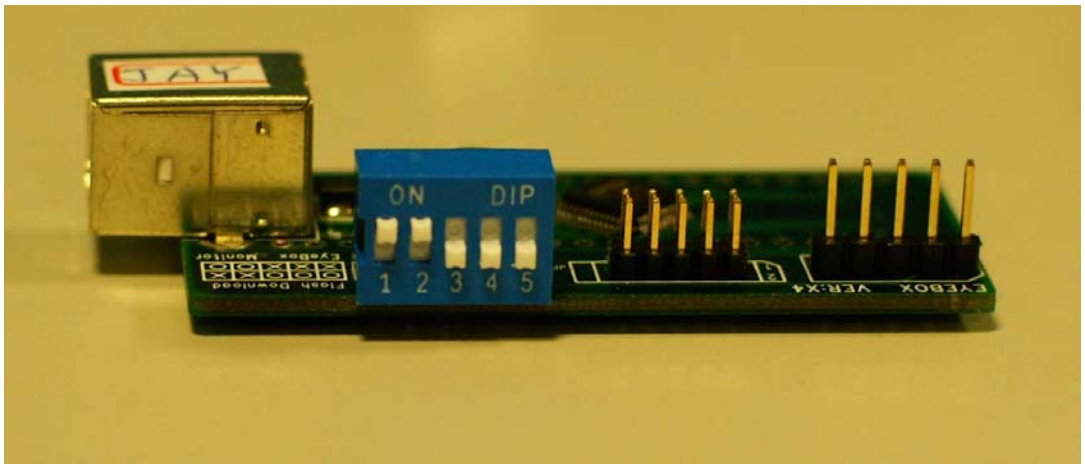
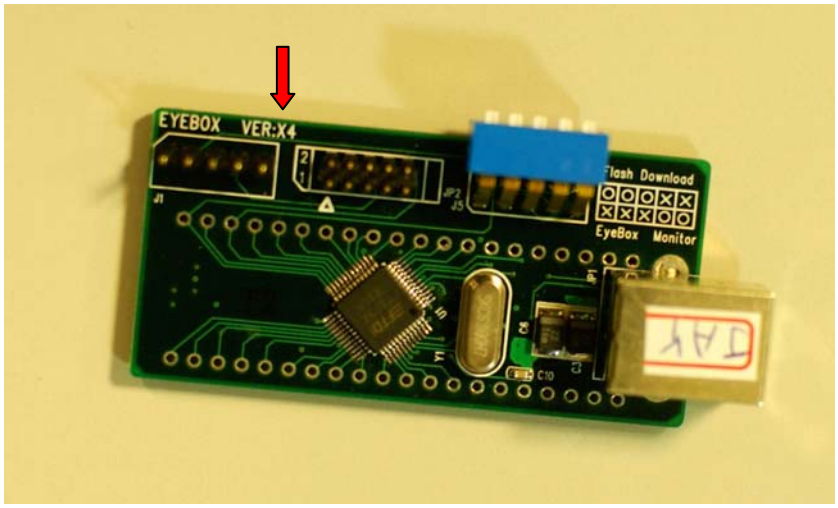


Figure 1



Version X4 DIP:





Using FirmwareManager

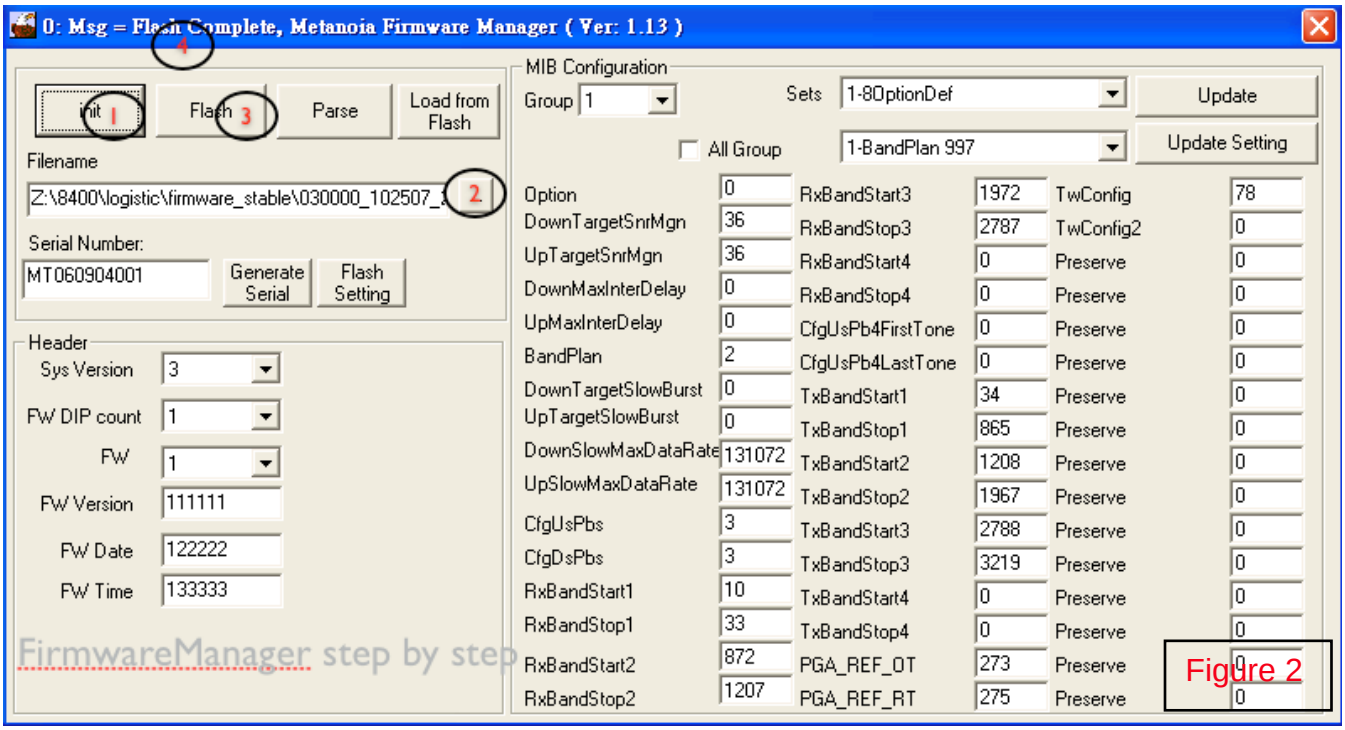
1. Make sure eyebox controller DIP setting is

   X3: 1,2,3 at ON and 4,5 at OFF

   X4: 3,4,5 at ON and 1,2 at OFF

2. Run the FirmwareManager.exe in the directory

3. Follow instruction of figure 2 to flash firmware



4. After about 1 min, you will see “Flash complete” in the window caption.

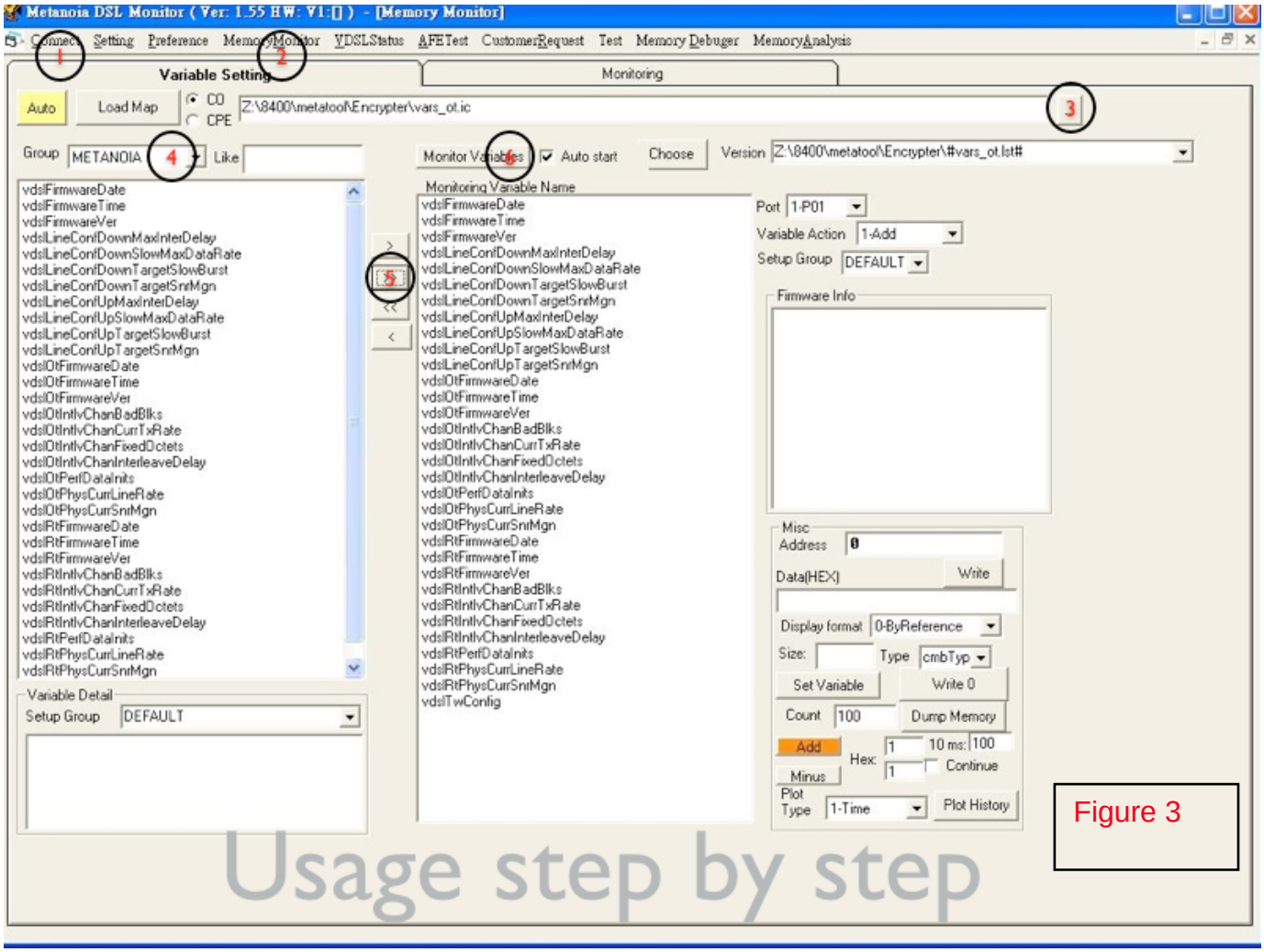
Using DslMonitor

1. Make sure eyebox controller DIP setting is

    X3: 1,2,3 at OFF and 4,5 at ON

    X4: 3,4,5 at OFF and 1,2 at ON

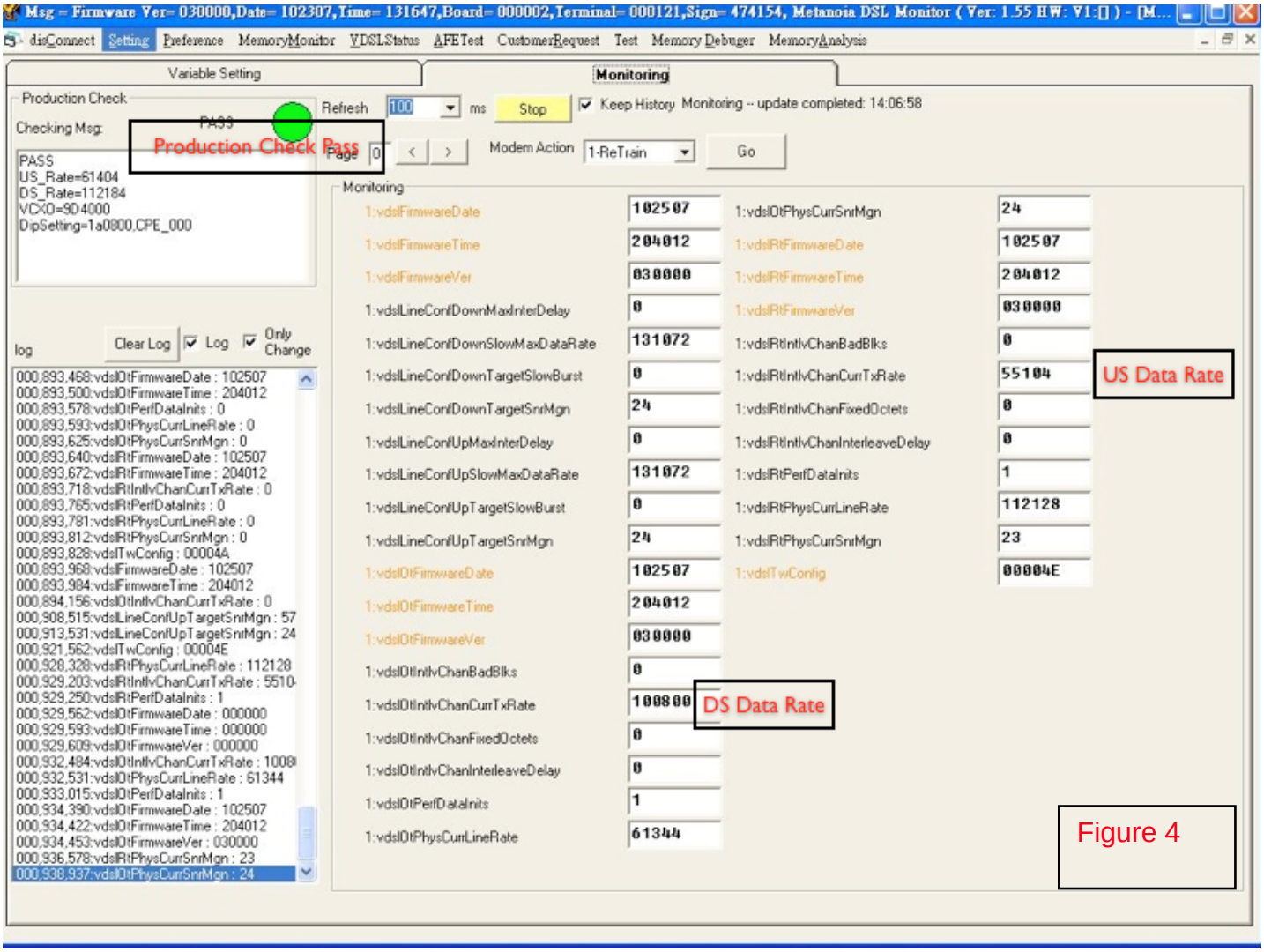
2. Follow the instruction of figure 3 to monitor modem status



2.1 After step 1, firmware information will be show up on window caption, you must select the correct ic file of same firmware version. CO(OT)/CPE(RT) must select correctly.If terminal is xxxxx1, this is CPE(RT). If terminal is xxxxx0, this is CO(OT)

3. The result as figure 4

4 Variable definition in table


Msg = Firmware Ver= 030000,Date= 102307,Time= 131647,Board= 000002,Terminal= 000121,Sign= 474154, Metanoia DSL Monitor (Ver: 1.55 HW: V1:[]) - [M...
disConnect
Setting
Preference
MemoryMonitor
VDSLStatus
AFETest
CustomerRequest
Test
Memory Debuger
MemoryAnalysis
Variable Setting
Monitoring
Production Check
Checking Msg:
PASS
Production Check Pass
PASS
US_Rate=61404
DS_Rate=112184
VCXO=9D4000
DipSetting=1a0800.CPE_000
Refresh
100
ms
Stop
Keep History
Monitoring -- update completed: 14:06:58
Page
0
Modem Action
1-ReTrain
Go
log
Clear Log
Log
Only Change
000,893,468:vdslOtFirmwareDate : 102507
000,893,500:vdslOtFirmwareTime : 204012
000,893,578:vdslOtPerfDataInits : 0
000,893,593:vdslOtPhysCurrLineRate : 0
000,893,625:vdslOtPhysCurrSnrMgn : 0
000,893,640:vdslRtFirmwareDate : 102507
000,893,672:vdslRtFirmwareTime : 204012
000,893,718:vdslRtIntlvChanCurrTxRate : 0
000,893,765:vdslRtPerfDataInits : 0
000,893,781:vdslRtPhysCurrLineRate : 0
000,893,812:vdslRtPhysCurrSnrMgn : 0
000,893,828:vdslTwConfig : 00004A
000,893,968:vdslFirmwareDate : 102507
000,893,984:vdslFirmwareTime : 204012
000,894,156:vdslOtIntlvChanCurrTxRate : 0
000,908,515:vdslLineConfUpTargetSnrMgn : 57
000,913,531:vdslLineConfUpTargetSnrMgn : 24
000,921,562:vdslTwConfig : 00004E
000,928,328:vdslRtPhysCurrLineRate : 112128
000,929,203:vdslRtIntlvChanCurrTxRate : 5510
000,929,250:vdslRtPerfDataInits : 1
000,929,562:vdslOtFirmwareDate : 000000
000,929,593:vdslOtFirmwareTime : 000000
000,929,609:vdslOtFirmwareVer : 000000
000,932,484:vdslOtIntlvChanCurrTxRate : 1008
000,932,531:vdslOtPhysCurrLineRate : 61344
000,933,015:vdslOtPerfDataInits : 1
000,934,390:vdslOtFirmwareDate : 102507
000,934,422:vdslOtFirmwareTime : 204012
000,934,453:vdslOtFirmwareVer : 030000
000,936,578:vdslRtPhysCurrSnrMgn : 23
000,938,937:vdslOtPhysCurrSnrMgn : 24
Monitoring
1:vdslFirmwareDate 102507
1:vdslFirmwareTime 204012
1:vdslFirmwareVer 030000
1:vdslLineConfDownMaxInterDelay 0
1:vdslLineConfDownSlowMaxDataRate 131072
1:vdslLineConfDownTargetSlowBurst 0
1:vdslLineConfDownTargetSnrMgn 24
1:vdslLineConfUpMaxInterDelay 0
1:vdslLineConfUpSlowMaxDataRate 131072
1:vdslLineConfUpTargetSlowBurst 0
1:vdslLineConfUpTargetSnrMgn 24
1:vdslOtFirmwareDate 102507
1:vdslOtFirmwareTime 204012
1:vdslOtFirmwareVer 030000
1:vdslOtIntlvChanBadBlks 0
1:vdslOtIntlvChanCurrTxRate 100800
DS Data Rate
1:vdslOtIntlvChanFixedOctets 0
1:vdslOtIntlvChanInterleaveDelay 0
1:vdslOtPerfDataInits 1
1:vdslOtPhysCurrLineRate 61344
1:vdslOtPhysCurrSnrMgn 24
1:vdslRtFirmwareDate 102507
1:vdslRtFirmwareTime 204012
1:vdslRtFirmwareVer 030000
1:vdslRtIntlvChanBadBlks 0
1:vdslRtIntlvChanCurrTxRate 55104
US Data Rate
1:vdslRtIntlvChanFixedOctets 0
1:vdslRtIntlvChanInterleaveDelay 0
1:vdslRtPerfDataInits 1
1:vdslRtPhysCurrLineRate 112128
1:vdslRtPhysCurrSnrMgn 23
1:vdslTwConfig 00004E
Figure 4

DslMonitor variable description		
Variable Name	Default Group	Memo
r0_DsFastPathRate	PLIANKDIA	Data rate (unit is 64 kbps)
r0_UsFastPathRate	PLIANKDIA	Data rate (unit is 64 kbps)
vdslFirmwareDate	PLIANKDIA	Firmware Date
vdslFirmwareTime	PLIANKDIA	Firmware time
vdslFirmwareVer	PLIANKDIA	Firmware version
vdslLineConfDownMaxInterDelay	PLIANKDIA	DownStream Max network delay (ms)
vdslLineConfDownSlowMaxDataRate	PLIANKDIA	DownStream Rate limit
vdslLineConfDownTargetSlowBurst	PLIANKDIA	DownStream INP (us)
vdslLineConfDownTargetSnrMgn	PLIANKDIA	Target DownStream Snr Mgn
vdslLineConfUpMaxInterDelay	PLIANKDIA	UpStream Max network delay(ms)
vdslLineConfUpSlowMaxDataRate	PLIANKDIA	UpStream Rate limit
vdslLineConfUpTargetSlowBurst	PLIANKDIA	UpStream INP (us)
vdslLineConfUpTargetSnrMgn	PLIANKDIA	Target UpStream Snr Mgn
vdslCLinkIntvChanUncBlks	PLIANKDIA	CRC counts
vdslCLinkIntvChanCorrectedOctets	PLIANKDIA	error correct byte
vdslCPerfValidInits	PLIANKDIA	initialization success counter
vdslCPhysCurLineRate	PLIANKDIA	Current UpStream linerate
vdslCPhysCurSnrMgn	PLIANKDIA	Current UpStream Snr Mgn
vdslRLinkIntvChanUncBlks	PLIANKDIA	CRC counts
vdslRLinkIntvChanCorrectedOctets	PLIANKDIA	error correct byte
vdslRPerfValidInits	PLIANKDIA	initialization success counter
vdslRPhysCurLineRate	PLIANKDIA	Current DownStream linerate
vdslRPhysCurSnrMgn	PLIANKDIA	Current DownStream Snr Mgn
BinSelect	ADVANCE	Select debug bin
CfgDsPb0FirstTone	ADVANCE	Down Stream band 0 first tone
CfgDsPb0LastTone	ADVANCE	Down Stream band 0 last tone
CfgDsPb1FirstTone	ADVANCE	Down Stream band 1 first tone
CfgDsPb1LastTone	ADVANCE	Down Stream band 1 last tone
CfgDsPb2FirstTone	ADVANCE	Down Stream band 2 first tone
CfgDsPb2LastTone	ADVANCE	Down Stream band 2 last tone
CfgDsPb3FirstTone	ADVANCE	Down Stream band 3 first tone
CfgDsPb3LastTone	ADVANCE	Down Stream band 3 last tone
CfgDsPb4FirstTone	ADVANCE	Down Stream band 4 first tone
CfgDsPb4LastTone	ADVANCE	Down Stream band 4 last tone
CfgDsPbs	ADVANCE	Config DownStream bandplan parameter
CfgUsPb0FirstTone	ADVANCE	UpStream band 0 first tone
CfgUsPb0LastTone	ADVANCE	UpStream band 0 last tone
CfgUsPb1FirstTone	ADVANCE	UpStream band 1 first tone
CfgUsPb1LastTone	ADVANCE	UpStream band 1 last tone
CfgUsPb2FirstTone	ADVANCE	UpStream band 2 first tone
CfgUsPb2LastTone	ADVANCE	UpStream band 2 last tone
CfgUsPb3FirstTone	ADVANCE	UpStream band 3 first tone
CfgUsPb3LastTone	ADVANCE	UpStream band 3 last tone
CfgUsPb4FirstTone	ADVANCE	UpStream band 4 first ton
CfgUsPb4LastTone	ADVANCE	UpStream band 4 last tone
CfgUsPbs	ADVANCE	Config UpStream bandplan parameter
LineLength	ADVANCE	estimated line length
ModemStatus	ADVANCE	Modem status
MulBufLostCnt	ADVANCE	Lost counter when packet buffer over flow
RxPktCntr	ADVANCE	Utopia receive packet counts
TxPktCntr	ADVANCE	Utopia send packet counter
VcxoValue	ADVANCE	Clock setup parameter
vdslLineDiagCnt	ADVANCE	Handshake debug flag
vdslLineDiagCntD	ADVANCE	Handshake debug flag history 1
vdslLineDiagCntDD	ADVANCE	Handshake debug flag history 2

vdslLineDiagSt	ADVANCE	Showtime debug flag
vdslLineDiagSt2	ADVANCE	Showtime debug flag 2
vdslLineDiagSt2D	ADVANCE	Showtime debug flag 2 history
vdslLineDiagSt2DD	ADVANCE	Showtime debug flag 2 history 2
vdslLineDiagStD	ADVANCE	Showtime debug flag history
vdslLineDiagStDD	ADVANCE	Showtime debug flag history2
vdslLineDiagTrn	ADVANCE	Training debug flag
vdslLineDiagTrnD	ADVANCE	Training debug flag history
vdslLineDiagTrnDD	ADVANCE	Training debug flag history 2
VdslLineFgndCntr	ADVANCE	Foreground counter
vdslLinePauseFrmCntr	ADVANCE	802.3 pause frame counter
vdslLineTime250ms	ADVANCE	Other debug flag
vdslLineTime250msD	ADVANCE	Other debug flag history
vdslLineTime250msDD	ADVANCE	Other debug flag history 2
vdslOtPerfDataESs	ADVANCE	UpStream Error second
vdslRtPerfDataESs	ADVANCE	DownStream Error second
vdslVcxoValue	ADVANCE	Clock setup parameter

Change Log:

Version	Date	Description
1.0	2007/11/7	Initial version
1.1	2007/11/27	Add 2.1
1.2	2008/10/15	Add eyebox controller version X3 and X4