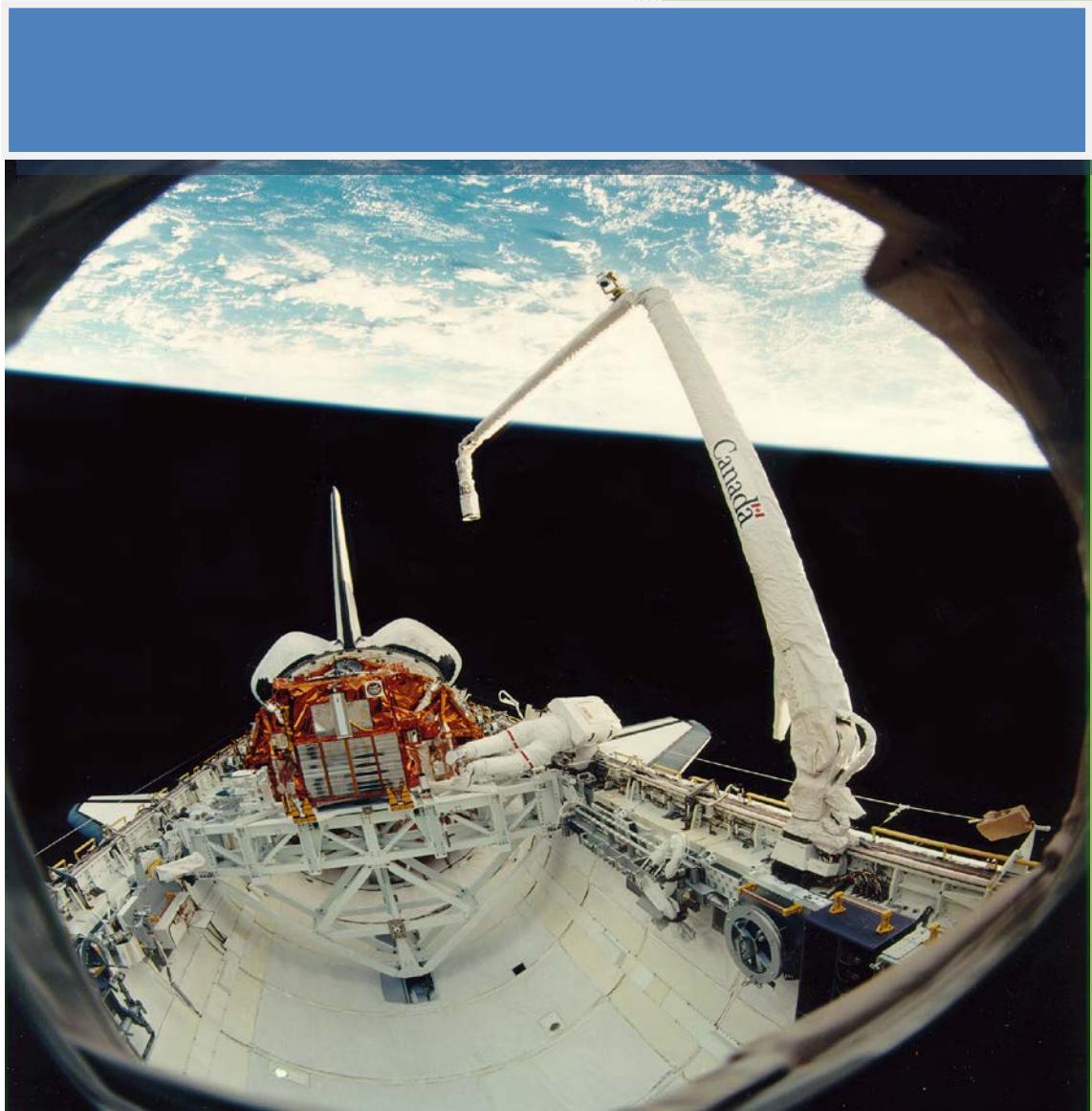


**PTS-10**  
**Time Server**  
**SNMP MIB Manual**



Kyland Technology (Shanghai) Co., Ltd.

Version Copyright

R7

Kyland Technology (Shanghai) Co., Ltd.  
Room 802, Building 5, No.3000 Longdong Avenue  
Pudong District, Shanghai, China  
Tel: +86-21-80321288  
Fax: +86-21-80321289

# Contents

<b>1. Basic Features .....</b>	<b>4</b>
1.1.    Introduction.....	4
<b>2. SYNC SOURCE-MIB .....</b>	<b>5</b>
2.1.    MIB Single Node .....	5
2.1.1.    syncSourceSat1Priority.....	5
2.1.2.    syncSourceSat1Delay.....	5
2.1.3.    syncSourceSat1MulType .....	5
2.1.4.    syncSourceSat1ChannelType.....	5
2.1.5.    syncSourceSat1SatMode.....	5
2.1.6.    syncSourceSat2Priority.....	6
2.1.7.    syncSourceSat2Delay.....	6
2.1.8.    syncSourceSat2MulType .....	6
2.1.9.    syncSourceSat2ChannelType.....	6
2.1.10.    syncSourceSat2SatMode.....	7
2.1.11.    syncSourceIrgb1Priority .....	7
2.1.12.    syncSourceIrgb1MulType .....	7
2.1.13.    syncSourceIrgb1Channel .....	7
2.1.14.    syncSourceIrgb1Input.....	7
2.1.15.    syncSourceIrgb1Offset.....	8
2.1.16.    syncSourceIrgb2Priority .....	8
2.1.17.    syncSourceIrgb2MulType .....	8
2.1.18.    syncSourceIrgb2Channel .....	8
2.1.19.    syncSourceIrgb2Input.....	8
2.1.20.    syncSourceIrgb2Offset.....	8
2.1.21.    syncSourcePtpPriority .....	9
2.1.22.    syncSourcePtpMulType .....	9
2.1.23.    syncSourceSyncMode.....	9
2.2.    MIB Table Node .....	9
2.2.1.    syncSourceTable .....	9
<b>3. TIMECLOCK-MIB .....</b>	<b>11</b>
3.1.    MIB Single Node .....	11
3.1.1.    timeClockTimeZone .....	11
3.1.2.    timeClockUtcDiff .....	11
3.1.3.    timeClockTAIEnable .....	11
3.1.4.    timeClockOutputEnable .....	11

3.1.5.	timeClockDaylightReference .....	11
3.1.6.	timeClockDaylightZone .....	12
3.1.7.	timeClockDaylightNumber0 .....	12
3.1.8.	timeClockDaylightWeekday0.....	12
3.1.9.	timeClockDaylightMonth0 .....	12
3.1.10.	timeClockDaylightTime0 .....	13
3.1.11.	timeClockDaylightNumber1 .....	13
3.1.12.	timeClockDaylightWeekday1.....	13
3.1.13.	timeClockDaylightMonth1 .....	13
3.1.14.	timeClockDaylightTime1 .....	13
3.1.15.	timeClockSelectSource.....	14
3.1.16.	timeClockInitialState .....	14
3.1.17.	timeClockLockState .....	14
3.1.18.	timeClockHoldState.....	14
3.1.19.	timeClockTemperature.....	14
3.1.20.	timeClockPower1State .....	15
3.1.21.	timeClockPower2State .....	15
3.1.22.	timeClockFreq .....	15
3.1.23.	timeClockVersion.....	15
3.1.24.	timeClockLongitude .....	15
3.1.25.	timeClockLatitude .....	15
3.1.26.	timeClockHeight .....	16
<b>4.</b>	<b>NTP-MIB .....</b>	<b>17</b>
4.1.	MIB Single Node .....	17
4.1.1.	ntpServerEnable .....	17
4.1.2.	ntpUtcOffset .....	17
<b>5.</b>	<b>PTP-MIB .....</b>	<b>18</b>
5.1.	MIB Single Node .....	18
5.1.1.	ptpGmcMode .....	18
5.1.2.	ptpDelayMechanism .....	18
5.1.3.	ptpSyncInterval.....	18
5.1.4.	ptpDelayInterval .....	18
5.1.5.	ptpDomain1.....	18
5.1.6.	ptpDomain2.....	19
5.1.7.	ptpPriority1 .....	19
5.1.8.	ptpPriority2 .....	19
5.1.9.	ptpMediaType .....	19

5.1.10.	ptpInBoundLantency .....	19
5.1.11.	ptpOutBoundLantency .....	20
5.1.12.	ptpVlanEnable .....	20
5.1.13.	ptpVlanPriority .....	20
5.1.14.	ptpVlanCFI .....	20
5.1.15.	ptpVlanTag .....	20
5.1.16.	ptpCoordinate .....	21
<b>6.</b>	<b>OUTPUT-MIB .....</b>	<b>22</b>
6.1.	MIB Single Node .....	22
6.1.1.	outputIRIGBAccp .....	22
6.1.2.	outputIRIGBRatio .....	22
6.1.3.	outputSerialBaudrate .....	22
6.1.4.	outputSerialPPSOutput .....	22
6.1.5.	outputSerialTxDOOutput .....	23
6.1.6.	outputSerialMsgType .....	23
6.1.	MIB Table Node .....	23
6.1.1.	outputTable .....	23
<b>7.</b>	<b>NETWORK-MIB .....</b>	<b>25</b>
7.1.	MIB Table Node .....	25
7.1.1.	networkTable .....	25
7.1.2.	networkexpTable .....	25
	<b>Table Index .....</b>	<b>27</b>

# 1.

# Basic Features

## 1.1. Introduction



[Figure 1-1] PTS-10 Time Server

The PTS-10 Time Server is a standard time server. It supports high precision reference clock, which can be synchronized to absolute time such as GPS, BDS, and GLONASS etc. Built-in TCXO, OCXO helps to provide stable reference frequency source. System supports multiple sources time sync auto selection algorithm which can perform stable switch between GPS, BDS, GLONASS, IRIG-B, PTP and local clock, and sky/ground and master/slave clock backup. PTS-10 time server provides flexible time output channels and signals. The output timing signals include PPS, PPM, PPH, IRIG-B (Demodulated), IRIG-B (Modulated), Serial Time Signal (TOD etc.) etc. Plus, PTS-10 supports network sync time protocols NTP/SNTP and PTP (IEEE1588 v2). IEEE1588 can works in several modes by the software configuration including grandmaster clock, slave clock and boundary clock. PTS-10 has LCD to show any status and do configuration by keyboard. Meanwhile, PTS-10 is designed to send timing source status and clock status to control center by IEC61850 MMS, IEC60870-T104, DNP3.0, Modbus etc. PTS-10 also supports WEB and SNMP to manage system.

**2.****SYNCSOURCE-MIB****2.1. MIB Single Node****2.1.1. syncSourceSat1Priority**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.1. The definition please see the below table.

Table 1 –syncSourceSat1Priority

Data Type	Description	RW	Status
Integer32	SAT1 Channel Priority: 1~10	read-write	Current

**2.1.2. syncSourceSat1Delay**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.2. The definition please see the below table.

Table 2 –syncSourceSat1Delay

Data Type	Description	RW	Status
Integer32	SAT1 Compensation Delay: -999999999~999999999	read-write	Current

**2.1.3. syncSourceSat1MulType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.3. The definition please see the below table.

Table 3 –syncSourceSat1MulType

Data Type	Description	RW	Status
Integer32	SAT1 Source Type: 0-NONE;1-SYNC;2-PEER	read-write	Current

**2.1.4. syncSourceSat1ChannelType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.4. The definition please see the below table.

Table 4 –syncSourceSat1ChannelType

Data Type	Description	RW	Status
Integer32	SAT1 Channel Type: 0-UBLOX5; 1-UBLOX8; 2-AT3340; 3-HWA210B; 4-HWA210L	read-write	Current

**2.1.5. syncSourceSat1SatMode**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.5. The definition please see the below table.

Table 5 –syncSourceSat1SatMode

Data Type	Description	RW	Status
Integer32	SAT1 Work Mode: 0-Auto; 1-A-BDS; 2-A-GPS; 3-A-GLONASS; 4-F-BDS; 5-F-GPS; 6-F-GLONASS	read-write	Current

**2.1.6. syncSourceSat2Priority**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.6. The definition please see the below table.

Table 6 –syncSourceSat2Priority

Data Type	Description	RW	Status
Integer32	SAT2 Channel Priority: 1~10	read-write	Current

**2.1.7. syncSourceSat2Delay**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.7. The definition please see the below table.

Table 7 –syncSourceSat2Delay

Data Type	Description	RW	Status
Integer32	SAT2 Compensation Delay: -999999999~999999999	read-write	Current

**2.1.8. syncSourceSat2MulType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.8. The definition please see the below table.

Table 8 –syncSourceSat2MulType

Data Type	Description	RW	Status
Integer32	SAT2 Source Type: 0-NONE;1-SYNC;2-PEER	read-write	Current

**2.1.9. syncSourceSat2ChannelType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.9. The definition please see the below table.

Table 9 –syncSourceSat2ChannelType

Data Type	Description	RW	Status
Integer32	SAT1 Channel Type: 0-UBLOX5; 1-UBLOX8; 2-AT3340; 3-HWA210B; 4-HWA210L	read-write	Current

### **2.1.10. syncSourceSat2SatMode**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.10. The definition please see the below table.

Table 10 –syncSourceSat2SatMode

Data Type	Description	RW	Status
Integer32	SAT2 Work Mode: 0-Auto; 1-A-BDS; 2-A-GPS; 3-A-GLONASS; 4-F-BDS; 5-F-GPS; 6-F-GLONASS	read-write	Current

### **2.1.11. syncSourceIrigb1Priority**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.11. The definition please see the below table.

Table 11 –syncSourceIrigb1Priority

Data Type	Description	RW	Status
Integer32	IRIG-B1 Channel Priority: 1~10	read-write	Current

### **2.1.12. syncSourceIrigb1MulType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.12. The definition please see the below table.

Table 12 –syncSourceIrigb1MulType

Data Type	Description	RW	Status
Integer32	IRIG-B1 Source Type: 0-NONE;1-SYNC;2-PEER	read-write	Current

### **2.1.13. syncSourceIrigb1Channel**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.13. The definition please see the below table.

Table 13 –syncSourceIrigb1Channel

Data Type	Description	RW	Status
Integer32	IRIG-B1 Channel Type: 2-FI1; 3-FI2	read-write	Current

### **2.1.14. syncSourceIrigb1Input**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.14. The definition please see the below table.

Table 14 –syncSourceIrigb1Input

Data Type	Description	RW	Status
Integer32	IRIG-B1 Input Format: 0-DC+; 3-DC-	read-write	Current

### **2.1.15. syncSourceIrigb1Offset**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.15. The definition please see the below table.

Table 15 –syncSourceIrigb1Offset

Data Type	Description	RW	Status
OCTET STRING	IRIG-B1 Offset with UTC: -12~12	read-write	Current

### **2.1.16. syncSourceIrigb2Priority**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.16. The definition please see the below table.

Table 16 –syncSourceIrigb2Priority

Data Type	Description	RW	Status
Integer32	IRIG-B2 Channel Priority: 1~10	read-write	Current

### **2.1.17. syncSourceIrigb2MulType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.17. The definition please see the below table.

Table 17 –syncSourceIrigb2MulType

Data Type	Description	RW	Status
Integer32	IRIG-B2 Source Type: 0-NONE;1-SYNC;2-PEER	read-write	Current

### **2.1.18. syncSourceIrigb2Channel**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.18. The definition please see the below table.

Table 18 –syncSourceIrigb2Channel

Data Type	Description	RW	Status
Integer32	IRIG-B2 Channel Type: 2-FI1; 3-FI2	read-write	Current

### **2.1.19. syncSourceIrigb2Input**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.19. The definition please see the below table.

Table 19 –syncSourceIrigb2Input

Data Type	Description	RW	Status
Integer32	IRIG-B2 Input Format: 0-DC+; 3-DC-	read-write	Current

### **2.1.20. syncSourceIrigb2Offset**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.20. The definition please see the below table.

Table 20 –syncSourceIrigb2Offset

Data Type	Description	RW	Status
OCTET STRING	IRIG-B2 Offset with UTC: -12~12	read-write	Current

**2.1.21. syncSourcePtpPriority**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.21. The definition please see the below table.

Table 21 –syncSourcePtpPriority

Data Type	Description	RW	Status
Integer32	PTP Channel Priority: 1~10	read-write	Current

**2.1.22. syncSourcePtpMultiType**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.22. The definition please see the below table.

Table 22 –syncSourcePtpMultiType

Data Type	Description	RW	Status
Integer32	PTP Source Type: 0-NONE;1-SYNC;2-PEER	read-write	Current

**2.1.23. syncSourceSyncMode**

The OID is 1.3.6.1.4.1.45454.2.1.3.1.23. The definition please see the below table.

Table 23 –syncSourceSyncMode

Data Type	Description	RW	Status
Integer32	Source Work Mode: 0-Single; 1-Multiple	read-write	Current

**2.2. MIB Table Node****2.2.1. syncSourceTable**

The OID is 1.3.6.1.4.1.45454.2.1.3.2.1.1. The definition please see the below table.

Table 24 –syncSourceTable Column

Name	Data Type	Description	RW
syncSourceStatus[3]	OCTET STRING	Source Status: Normal; Alarm	Read-only
syncSourceNsatTracked[4]	Integer32	Satellite Number: 0~255	Read-only
syncSourceAntennaStatus[5]	OCTET STRING	Antenna Status:	Read-only

		Normal; Alarm	
syncSourceBump[6]	OCTET STRING	Bump Status: Normal; Alarm	Read-only
syncSourcePriority[7]	Integer32	Source Priority: 1~10	Read-only

Table 25 –syncSourceTable Row

Name	Description	Status
SAT1[2]	SAT1 Source Channel	Current
SAT2[3]	SAT2 Source Channel	Current
IRIG-B1[5]	IRIG-B1 Source Channel	Current
IRIG-B2[6]	IRIG-B2 Source Channel	Current
PTP[7]	PTP Source Channel	Current

**3.****TIMECLOCK-MIB****3.1. MIB Single Node****3.1.1. timeClockTimeZone**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.1. The definition please see the below table.

Table 26 –timeClockTimeZone

Data Type	Description	RW	Status
OCTET STRING	Time Zone: -12~12	read-write	Current

**3.1.2. timeClockUtcDiff**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.2. The definition please see the below table.

Table 27 –timeClockUtcDiff

Data Type	Description	RW	Status
Integer32	TAI offset with UTC: -32768~32767	read-write	Current

**3.1.3. timeClockTAIEnable**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.3. The definition please see the below table.

Table 28 –timeClockTAIEnable

Data Type	Description	RW	Status
Integer32	TAI Enable: 0-UTC; 1-TAI	read-write	Current

**3.1.4. timeClockOutputEnable**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.4. The definition please see the below table.

Table 29 –timeClockOutputEnable

Data Type	Description	RW	Status
Integer32	Output Control Mode: 0-Always; 1-Local	read-write	Current

**3.1.5. timeClockDaylightReference**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.5. The definition please see the below table.

Table 30 –timeClockDaylightReference

Data Type	Description	RW	Status
Integer32	DST Mode: 0-UTC; 1-LOCAL	read-write	Current

**3.1.6. timeClockDaylightZone**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.6. The definition please see the below table.

Table 31 –timeClockDaylightZone

Data Type	Description	RW	Status
OCTET STRING	DST Offset: -12~12	read-write	Current

**3.1.7. timeClockDaylightNumber0**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.7. The definition please see the below table.

Table 32 –timeClockDaylightNumber0

Data Type	Description	RW	Status
Integer32	DST Start Index: 0-1st; 1-2nd; 2-3rd; 3-4th; 4-5th; 5-Last	read-write	Current

**3.1.8. timeClockDaylightWeekday0**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.8. The definition please see the below table.

Table 33 –timeClockDaylightWeekday0

Data Type	Description	RW	Status
Integer32	DST Start Weekday: 0-SUN; 1-MON; 2-TUE; 3-WED; 4-THU; 5-FRI; 6-SAT	read-write	Current

**3.1.9. timeClockDaylightMonth0**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.9. The definition please see the below table.

Table 34 –timeClockDaylightWeekday0

Data Type	Description	RW	Status
Integer32	DST Start Month: 0-JAN; 1-FEB; 2-MAR; 3-APR; 4-MAY; 5-JUN; 6-JUL; 7-AUG; 8-SEP; 9-OCT; 10-NOV; 11-DEC	read-write	Current

### **3.1.10. timeClockDaylightTime0**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.10. The definition please see the below table.

Table 35 –timeClockDaylightTime0

Data Type	Description	RW	Status
OCTET STRING	DST Start Time: 0~24	read-write	Current

### **3.1.11. timeClockDaylightNumber1**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.11. The definition please see the below table.

Table 36 –timeClockDaylightNumber1

Data Type	Description	RW	Status
Integer32	DST Stop Index: 0-1st; 1-2nd; 2-3rd; 3-4th; 4-5th; 5-Last	read-write	Current

### **3.1.12. timeClockDaylightWeekday1**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.12. The definition please see the below table.

Table 37 –timeClockDaylightWeekday1

Data Type	Description	RW	Status
Integer32	DST Stop Weekday: 0-SUN; 1-MON; 2-TUE; 3-WED; 4-THU; 5-FRI; 6-SAT	read-write	Current

### **3.1.13. timeClockDaylightMonth1**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.13. The definition please see the below table.

Table 38 –timeClockDaylightWeekday1

Data Type	Description	RW	Status
Integer32	DST Stop Month: 0-JAN; 1-FEB; 2-MAR; 3-APR; 4-MAY; 5-JUN; 6-JUL; 7-AUG; 8-SEP; 9-OCT; 10-NOV; 11-DEC	read-write	Current

### **3.1.14. timeClockDaylightTime1**

The OID is 1.3.6.1.4.1.45454.2.1.4.1.14. The definition please see the below table.

Table 39 –timeClockDaylightTime1

Data Type	Description	RW	Status
OCTET STRING	DST Stop Time:	read-write	Current

	0~24		
--	------	--	--

### 3.1.15. timeClockSelectSource

The OID is 1.3.6.1.4.1.45454.2.1.4.2.1. The definition please see the below table.

Table 40 –timeClockSelectSource

Data Type	Description	RW	Status
OCTET STRING	The Current Time Source: SAT1; SAT2; IRIG-B1; IRIG-B2; LOCAL; PTP	read-only	Current

### 3.1.16. timeClockInitialState

The OID is 1.3.6.1.4.1.45454.2.1.4.2.2. The definition please see the below table.

Table 41 –timeClockInitialState

Data Type	Description	RW	Status
OCTET STRING	Initialization Status: Initialized; Initializing	read-only	Current

### 3.1.17. timeClockLockState

The OID is 1.3.6.1.4.1.45454.2.1.4.2.3. The definition please see the below table.

Table 42 –timeClockLockState

Data Type	Description	RW	Status
OCTET STRING	Oscillator Lock Status: Locked; Locking	read-only	Current

### 3.1.18. timeClockHoldState

The OID is 1.3.6.1.4.1.45454.2.1.4.2.4. The definition please see the below table.

Table 43 –timeClockHoldState

Data Type	Description	RW	Status
OCTET STRING	Clock Status: Tracking; Hold	read-only	Current

### 3.1.19. timeClockTemperature

The OID is 1.3.6.1.4.1.45454.2.1.4.2.5. The definition please see the below table.

Table 44 –timeClockTemperature

Data Type	Description	RW	Status
Integer32	Operation Temperature	read-only	Current

### **3.1.20. timeClockPower1State**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.6. The definition please see the below table.

Table 45 –timeClockPower1State

Data Type	Description	RW	Status
OCTET STRING	#1 Power Supply Status: Normal; Alarm	read-only	Current

### **3.1.21. timeClockPower2State**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.7. The definition please see the below table.

Table 46 –timeClockPower2State

Data Type	Description	RW	Status
OCTET STRING	#2 Power Supply Status: Normal; Alarm	read-only	Current

### **3.1.22. timeClockFreq**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.8. The definition please see the below table.

Table 47 –timeClockFreq

Data Type	Description	RW	Status
OCTET STRING	Power Grid Frequency	read-only	Current

### **3.1.23. timeClockVersion**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.9. The definition please see the below table.

Table 48 –timeClockVersion

Data Type	Description	RW	Status
OCTET STRING	Version Information	read-only	Current

### **3.1.24. timeClockLongitude**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.10. The definition please see the below table.

Table 49 –timeClockLongitude

Data Type	Description	RW	Status
OCTET STRING	Longitude Information	read-only	Current

### **3.1.25. timeClockLatitude**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.11. The definition please see the below table.

Table 50 –timeClockLatitude

Data Type	Description	RW	Status
OCTET STRING	Latitude Information	read-only	Current

**3.1.26. timeClockHeight**

The OID is 1.3.6.1.4.1.45454.2.1.4.2.12. The definition please see the below table.

Table 51 –timeClockHeight

Data Type	Description	RW	Status
OCTET STRING	Height Information	read-only	Current

**4.****NTP-MIB****4.1. MIB Single Node****4.1.1. ntpServerEnable**

The OID is 1.3.6.1.4.1.45454.2.1.2.1.1. The definition please see the below table.

Table 52 –ntpServerEnable

Data Type	Description	RW	Status
Integer32	Enable NTP Service: 0-Disable; 1-Enable	read-write	Current

**4.1.2. ntpUtcOffset**

The OID is 1.3.6.1.4.1.45454.2.1.2.1.2. The definition please see the below table.

Table 53 –ntpUtcOffset

Data Type	Description	RW	Status
OCTET STRING	NTP Offset with UTC: -12~12	read-write	Current

**5.****PTP-MIB****5.1. MIB Single Node****5.1.1. ptpNetMode**

The OID is 1.3.6.1.4.1.45454.2.1.1.1.1. The definition please see the below table.

Table 54 –ptpNetMode

Data Type	Description	RW	Status
Integer32	PTP Clock Mode: 1-MASTER; 2-SLAVE; 3-BOUNDARY	read-write	Current

**5.1.2. ptpNetDelayMechanism**

The OID is 1.3.6.1.4.1.45454.2.1.1.1.2. The definition please see the below table.

Table 55 –ptpNetDelayMechanism

Data Type	Description	RW	Status
Integer32	PTP Delay Measurement Mode: 1-E2E; 2-P2P; 254-DISABLE	read-write	Current

**5.1.3. ptpNetSyncInterval**

The OID is 1.3.6.1.4.1.45454.2.1.1.1.3. The definition please see the below table.

Table 56 –ptpNetSyncInterval

Data Type	Description	RW	Status
Integer32	Sync Interval: -8~4; 5-STOP	read-write	Current

**5.1.4. ptpNetDelayInterval**

The OID is 1.3.6.1.4.1.45454.2.1.1.1.4. The definition please see the below table.

Table 57 –ptpNetDelayInterval

Data Type	Description	RW	Status
Integer32	Delay Measurement Interval: -8~4; 5-STOP	read-write	Current

**5.1.5. ptpNetDomain1**

The OID is 1.3.6.1.4.1.45454.2.1.1.1.5. The definition please see the below table.

Table 58 –ptpNetDomain1

Data Type	Description	RW	Status
Integer32	Domain #1: 0~3	read-write	Current

### 5.1.6. ptpDomain2

The OID is 1.3.6.1.4.1.45454.2.1.1.1.6. The definition please see the below table.

Table 59 –ptpDomain2

Data Type	Description	RW	Status
Integer32	Domain #2: 0~3	read-write	Current

### 5.1.7. ptpPriority1

The OID is 1.3.6.1.4.1.45454.2.1.1.1.7. The definition please see the below table.

Table 60 –ptpPriority1

Data Type	Description	RW	Status
Integer32	PTP Priority1: 0~255	read-write	Current

### 5.1.8. ptpPriority2

The OID is 1.3.6.1.4.1.45454.2.1.1.1.8. The definition please see the below table.

Table 61 –ptpPriority2

Data Type	Description	RW	Status
Integer32	PTP Priority2: 0~255	read-write	Current

### 5.1.9. ptpMediaType

The OID is 1.3.6.1.4.1.45454.2.1.1.1.9. The definition please see the below table.

Table 62 –ptpMediaType

Data Type	Description	RW	Status
Integer32	PTP Over: 1-IPv4; 3-802.3	read-write	Current

### 5.1.10. ptpInBoundLatency

The OID is 1.3.6.1.4.1.45454.2.1.1.1.10. The definition please see the below table.

Table 63 –ptpInBoundLatency

Data Type	Description	RW	Status
Integer32	PTP Input Compensation:	read-write	Current

	-999999999~999999999		
--	----------------------	--	--

### 5.1.11. ptpNetOutBoundLantency

The OID is 1.3.6.1.4.1.45454.2.1.1.1.11. The definition please see the below table.

Table 64 –ptpNetOutBoundLantency

Data Type	Description	RW	Status
Integer32	PTP Output Compensation: -999999999~999999999	read-write	Current

### 5.1.12. ptpNetVlanEnable

The OID is 1.3.6.1.4.1.45454.2.1.1.1.12. The definition please see the below table.

Table 65 –ptpNetVlanEnable

Data Type	Description	RW	Status
Integer32	Enable VLAN: 0-NO; 1-YES	read-write	Current

### 5.1.13. ptpNetVlanPriority

The OID is 1.3.6.1.4.1.45454.2.1.1.1.13. The definition please see the below table.

Table 66 –ptpNetVlanPriority

Data Type	Description	RW	Status
Integer32	VLAN Priority: 0~7	read-write	Current

### 5.1.14. ptpNetVlanCFI

The OID is 1.3.6.1.4.1.45454.2.1.1.1.14. The definition please see the below table.

Table 67 –ptpNetVlanCFI

Data Type	Description	RW	Status
Integer32	VLAN CFI: 0~1	read-write	Current

### 5.1.15. ptpNetVlanTag

The OID is 1.3.6.1.4.1.45454.2.1.1.1.15. The definition please see the below table.

Table 68 –ptpNetVlanTag

Data Type	Description	RW	Status
Integer32	VLAN Tag ID: 0~4095	read-write	Current

**5.1.16. ptptCoordinate**

The OID is 1.3.6.1.4.1.45454.2.1.1.1.16. The definition please see the below table.

Table 69 –ptptCoordinate

Data Type	Description	RW	Status
Integer32	Enable Master BMC: 0-NO; 1-YES	read-write	Current

**6.****OUTPUT-MIB****6.1. MIB Single Node****6.1.1. outputIRIGBAccp**

The OID is 1.3.6.1.4.1.45454.2.1.5.1.2. The definition please see the below table.

Table 70 –outputIRIGBAccp

Data Type	Description	RW	Status
OCTET STRING	IRIG-B Modulated P-P: 3~12	read-write	Current

**6.1.2. outputIRIGBRatio**

The OID is 1.3.6.1.4.1.45454.2.1.5.1.3. The definition please see the below table.

Table 71 –outputIRIGBRatio

Data Type	Description	RW	Status
OCTET STRING	IRIG-B Modulated Ratio: 3~6	read-write	Current

**6.1.3. outputSerialBaudrate**

The OID is 1.3.6.1.4.1.45454.2.1.5.1.4. The definition please see the below table.

Table 72 –outputSerialBaudrate

Data Type	Description	RW	Status
Integer32	Serial Baudrate: 0-300; 1-600; 2-1200; 3-2400; 4-4800; 5-9600; 6-19200; 7-38400; 8-76800; 9-115200	read-write	Current

**6.1.4. outputSerialPPSOutput**

The OID is 1.3.6.1.4.1.45454.2.1.5.1.5. The definition please see the below table.

Table 73 –outputSerialPPSOutput

Data Type	Description	RW	Status
Integer32	SO-PPS Output Type: 0-PPS; 1-IRIG; 3-PPM; 4-PPH	read-write	Current

### 6.1.5. outputSerialTxDOOutput

The OID is 1.3.6.1.4.1.45454.2.1.5.1.6. The definition please see the below table.

Table 74 –outputSerialTxDOOutput

Data Type	Description	RW	Status
Integer32	SO-TXD Output Type: 8-TOD	read-write	Current

### 6.1.6. outputSerialMsgType

The OID is 1.3.6.1.4.1.45454.2.1.5.1.7. The definition please see the below table.

Table 75 –outputSerialMsgType

Data Type	Description	RW	Status
Integer32	Serial Message Type: 0-NMEA-RMC; 1-NMEA-ZDA; 2-CM-TOD; 3-DL/T1100; 4-CMMB	read-write	Current

## 6.1. MIB Table Node

### 6.1.1. outputTable

The OID is 1.3.6.1.4.1.45454.2.1.5.1.1.1. The definition please see the below table.

Table 76 –outputTable Column

Name	Data Type	Description	RW
outputSignal[3]	Integer32	Output Signal: 0-PPS; 1-IRIG; 3-PPM; 4-PPH	read-write
outputShift[4]	Integer32	PPS Compensation: -250000000~250000000	read-write
outputSecOffset[5]	Integer32	Second Compensation: -999999999~999999999	read-write
outputOutTimeType[6]	Integer32	Time Format: 0-UTC; 1-TAI; 2-LOCAL	read-write
outputParity[7]	Integer32	Parity Mode: 0-Odd; 1-Even	read-write
outputPolarity[8]	Integer32	Polarity Mode: 0-Normal; 1-Invert	read-write

Table 77 –outputTable Row

Name	Description	Status
SO[1]	Programmable Serial Channel	Current

O1[2]	Programmable Output #1 Channel	Current
O2[3]	Programmable Output #2 Channel	Current
O3[4]	Programmable Output #3 Channel	Current
O4[5]	Programmable Output #4 Channel	Current
O5[6]	Programmable Output #5 Channel	Current

**7.****NETWORK-MIB****7.1. MIB Table Node****7.1.1. networkTable**

The OID is 1.3.6.1.4.1.45454.2.1.6.1.1.1. The definition please see the below table.

Table 78 –networkTable Column

Name	Data Type	Description	RW
networkIpAddress[3]	IPADDRESS	IP Address	read-write
networkMaskAddress[4]	IPADDRESS	IP Mask Address	read-write
networkMode[5]	Integer32	Mode(Type#1): 0-Auto; 1-100M-FX FDX; 2-100M-FX HDX; 4-1000M-X FDX; 5-1000M-X HDX	read-write
		Mode(Type#2): 0-Auto; 1-Force	read-write

Table 79 –networkTable Row

Name	Description	Status
Eth0[1]	Eth0 Network	Current
Eth1[2]	Eth1 Network	Current

**7.1.2. networkexpTable**

The OID is 1.3.6.1.4.1.45454.2.1.6.1.2.1. The definition please see the below table.

Table 80 –networkexpTable Column

Name	Data Type	Description	RW
networkExpIpAddress[3]	IPADDRESS	IP Address	read-write
networkExpMaskAddress[4]	IPADDRESS	IP Mask Address	read-write

Table 81 –networkexpTable Row

Name	Description	Status
Eth2[1]	Eth0 Network	Current
Eth3[2]	Eth1 Network	Current



## Table Index

Table 1 –syncSourceSat1Priority.....	5
Table 2 –syncSourceSat1Delay .....	5
Table 3 –syncSourceSat1MulType .....	5
Table 4 –syncSourceSat1ChannelType.....	5
Table 5 –syncSourceSat1SatMode.....	6
Table 6 –syncSourceSat2Priority.....	6
Table 7 –syncSourceSat2Delay .....	6
Table 8 –syncSourceSat2MulType .....	6
Table 9 –syncSourceSat2ChannelType.....	6
Table 10 –syncSourceSat2SatMode.....	7
Table 11 –syncSourceIrgb1Priority .....	7
Table 12 –syncSourceIrgb1MulType .....	7
Table 13 –syncSourceIrgb1Channel.....	7
Table 14 –syncSourceIrgb1Input.....	7
Table 15 –syncSourceIrgb1Offset .....	8
Table 16 –syncSourceIrgb2Priority .....	8
Table 17 –syncSourceIrgb2MulType .....	8
Table 18 –syncSourceIrgb2Channel .....	8
Table 19 –syncSourceIrgb2Input.....	8
Table 20 –syncSourceIrgb2Offset.....	9
Table 21 –syncSourcePtpPriority .....	9
Table 22 –syncSourcePtpMulType .....	9
Table 23 –syncSourceSyncMode.....	9
Table 24 –syncSourceTable Column.....	9
Table 25 –syncSourceTable Row .....	10
Table 26 –timeClockTimeZone .....	11
Table 27 –timeClockUtcDiff .....	11
Table 28 –timeClockTAIEnable.....	11
Table 29 –timeClockOutputEnable .....	11
Table 30 –timeClockDaylightReference .....	12
Table 31 –timeClockDaylightZone .....	12
Table 32 –timeClockDaylightNumber0 .....	12
Table 33 –timeClockDaylightWeekday0.....	12
Table 34 –timeClockDaylightWeekday0.....	12

Table 35 –timeClockDaylightTime0 .....	13
Table 36 –timeClockDaylightNumber1 .....	13
Table 37 –timeClockDaylightWeekday1.....	13
Table 38 –timeClockDaylightWeekday1.....	13
Table 39 –timeClockDaylightTime1 .....	13
Table 40 –timeClockSelectSource.....	14
Table 41 –timeClockInitialState .....	14
Table 42 –timeClockLockState .....	14
Table 43 –timeClockHoldState.....	14
Table 44 –timeClockTemperature.....	14
Table 45 –timeClockPower1State .....	15
Table 46 –timeClockPower2State .....	15
Table 47 –timeClockFreq .....	15
Table 48 –timeClockVersion.....	15
Table 49 –timeClockLongitude .....	15
Table 50 –timeClockLatitude .....	15
Table 51 –timeClockHeight .....	16
Table 52 –ntpServerEnable .....	17
Table 53 –ntpUtcOffset.....	17
Table 54 –ptpGmcMode .....	18
Table 55 –ptpDelayMechanism .....	18
Table 56 –ptpSyncInterval .....	18
Table 57 –ptpDelayInterval.....	18
Table 58 –ptpDomain1 .....	18
Table 59 –ptpDomain2 .....	19
Table 60 –ptpPriority1 .....	19
Table 61 –ptpPriority2 .....	19
Table 62 –ptpMediaType .....	19
Table 63 –ptpInBoundLatency .....	19
Table 64 –ptpOutBoundLatency .....	20
Table 65 –ptpVlanEnable .....	20
Table 66 –ptpVlanPriority .....	20
Table 67 –ptpVlanCFI .....	20
Table 68 –ptpVlanTag.....	20
Table 69 –ptpCoordinate.....	21
Table 70 –outputIRIGBAccp .....	22
Table 71 –outputIRIGBRatio .....	22

Table 72 –outputSerialBaudrate .....	22
Table 73 –outputSerialPPSOutput .....	22
Table 74 –outputSerialTxDOutput .....	23
Table 75 –outputSerialMsgType .....	23
Table 76 –outputTable Column.....	23
Table 77 –outputTable Row .....	23
Table 78 –networkTable Column .....	25
Table 79 –networkTable Row.....	25
Table 80 –networkexpTable Column.....	25
Table 81 –networkexpTable Row .....	25