

**Precise Time and Frequency, Inc** 

# ptf 1226 Auto Switch

# **Operation and Maintenance Manual**



Document # 11323 Revision A

Certificate of (	Conformance
This certificate confirms that the foll	lowing equipment:
Unit type: <b>ptf</b> 1226 Auto Switch	
Serial Number:	
has successfully passed a FINAL A in all respects of form, fit, and funct regulatory requirements and certific	tion to current specifications, including
Inspected and verified by:	Date:
For Precise Time and Frequency, Ir	

	Declaration of Conformity
	Declaration of Conformity
Unit type: <b><i>ptf</i> 1226</b> Au	hat the following equipment: nto Switch with Distribution elevant provisions of the following standard(s) ent(s):
	6/EEC: s and methods of measurements of radio disturbance acteristics of information technology equipment
EN61000-3-2 (2001)	Limits for harmonic current emissions (equipment input current up to and including 16A per phase)
EN61000-3-3 (1995)	Limitation of voltage fluctuations/flicker in low voltage supply systems for equipment with rated current # 16A
	nation technology equipment – immunity characteristics ts and methods of measurement
EN61000-4-2 (1995)	Electrostatic discharge immunity
EN61000-4-3 (1997)	Radiated, radio frequency, electromagnetic field Immunity
EN61000-4-4 (1995)	Electrical fast transient/burst immunity
EN61000-4-5 (1995)	Surge Immunity
EN61000-4-6 (1996)	Immunity to conducted disturbances, induced by radio frequency fields
EN61000-4-8 (1994)	Power frequency magnetic field immunity
EN61000-4-11 (1994)	Voltage Dips, short interruptions and voltage variations immunity
EU Low Voltage Directiv	e 72/23/EEC:
EN 60950-1 (2000)	Safety of Information Technology Equipment, including electrical business equipment

### Introduction

Congratulations on your purchase of the *ptf* 1226 Auto Switch with Distribution unit, with a comprehensive remote Monitor/Control interface!

This product meets the highest standards of quality and reliability, and Precise Time and Frequency, Inc wants to insure that you enjoy the maximum benefits and functionality that this unit can provide.

The technology within this unit uses the decades of experience in time and frequency applications of our engineering team, to provide a unit that is highly advanced, and gives a very powerful feature set in an inexpensive and compact package,

Operation of the unit is straightforward and the contents of this manual are designed to provide a basic understanding of the product, set-up and functionality, and procedures for maintenance and repair.

If you have any questions or concerns, please do not hesitate to contact our technical service department who will be pleased to provide assistance.

Please help us to live up to our stated objectives, our company motto is:

### KNOW THE NEEDS AND EXPECTATIONS OF YOUR CUSTOMER...THEN DELIVER!

Once again, thank you for purchasing our product, and we look forward to you utilizing Precise Time and Frequency, Inc. for your future time and frequency instrumentation needs.

David Albrigo

President Precise Time and Frequency, Inc.

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### 1. ptf 1226 Auto Switch with Distribution - Technical Overview

The ptf 1226 is an extension on the prvious ptf 1226A, and adds additional inputs capability, additional output capability, and enhanced monitoring and control. The unit is configurable according to application requirements and can house up to 3 channel pairs of auto switch input, and up to 36 distribution outputs all housed in one, 2U high rack mounting unit.

The input signals accommodate either a 13dbm RF sine wave (1volt RMS), a TTL digital input (usually 1PPS), or IRIG B amplitude modulated time code. The channel characteristics are factory configured before shipment.

Each Switching Channel selects the primary input and routes it to a distribution module to provide the required number of outputs. Detection logic embedded in an on-board CPLD on the auto switch modules determines if there is a fault condition on the primary input and then, if so, automatically switches to the backup input, provided the backup input is in a "healthy" condition.

In addition, the unit continuously monitors all switching channel inputs and distribution outputs, and provides a summary fault indication (change over relay contacts) if any one of the primary or backup inputs or any of the distribution outputs is reporting a fault.

The Auto Switch normally outputs the primary channel input signals, and automatically switches to the back-up channel based on health status of the measured inputs

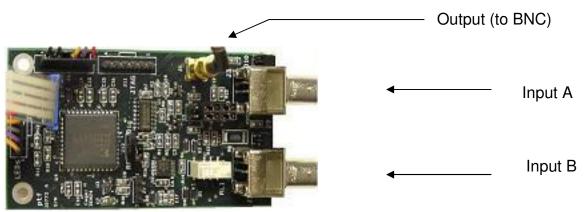


Figure 1. Photograph of internal Auto Switch Module

If the unit is fitted with RF distribution, it will also provide an indication of the analog rms output level. This is derived by means of an RF to analog level converter which is then routed to an on-board A/D converter to be read by the processor module and output via the Monitor/Control interface.

The remote Monitor/Control interface monitors all channel inputs and outputs, and provides a remote Ethernet TCP/IP interface (via telnet), an SNMP interface, and an RS232 serial interface. In addition to monitoring status of the unit, the remote Telnet and Serial interfaces can be used to control individual channel modes (Auto or Manual) and to select channel inputs (Primary or Backup).

### 2. ptf 1226 Auto Switch/Distribution - Specifications

2.1.1. Electrical

### **RF** Inputs – 2 per **RF** channel\*

Frequency Range	900kHz to 20MHz
Level	1V rms/ 13dBm (nominal)
Load Impedance	50Ω
Connectors	BNC

### Digital Inputs – 2 per Digital channel\*

Frequency Range0.01 Hz to 10MHzLevelsTTL low (<0.5V)</td>TTL High(>3V)

### Time Code Inputs – 2 per Time Code channel\*

Frequency Range100 Hz to 1MHzLevel3v pk-pk nominal (High)1V pk-pk nominal (Low)

### Note: Maximum number of input channel pairs (any combination) is 3

### Switching

A/B Input Isolation> 50dBSwitchingautomatic < 3ms</td>AlarmFront panel Red LEDSummary alarm on change over relay.

### **Distribution Outputs**

### **RF Outputs\***

Frequency Range	900kHz to 20MHz
Level	1 V rms/13dBm (nominal) – will accept 0 to 15 dBm
Load Impedance	50Ω
Connectors	BNC

### **Digital Outputs\***

Frequency Range Levels		TTL High(>3V)
Load Impedance Connectors	50Ω BNC	<b>C</b> ( <i>'</i>

### **IRIG B Time Code Outputs\***

Frequency Range	100Hz to 1MHz	
Level	3V pk-pk nominal(high)	1V pk-pk nominal (low)
Load Impedance	50Ω	
Connectors	BNC	

\*Note: Up to a total of 36 outputs maximum of any combination of above in groups of 4.

Example configurations:

Configuration 1	12 RF, 12 Digital, 12 IRIG B
Configuration 2	36 RF
Configuration 3	24 RF, 8 Digital, 4 IRIG B

### 2.1.2. Power Input

Standard AC power input:	
Input voltage	85 to 264 V AC
Input Frequency range	45 to 65 Hz

DC power input:

Input voltage

120 to 270 V DC

Optional DC Supply: 18 to 72 VDC (in place of AC input)

### 2.1.3. Dimensions

ptf 1226 2U Chassis (HxWxD) 3.5 x 17 x 12 inches

## 2.1.4. Weight

Chassis

<15 pounds (dependent upon configuration)

### 2.1.5. Environmental

Operating Temperature:	0º C to +55º C
Storage Temperature:	-40º C to +70º C
Relative Humidity	up to 95% RH non-condensing

### 3. Unpacking/Inspection/Installation

### 3.1. Unpacking/Inspection

The *ptf* 1226 Auto Switch together with accessories is shipped in a custom designed package. Upon receipt the equipment should first be visually inspected for any signs of visible damage.

If visible damage is apparent immediate notification should be given to both Precise Time and Frequency, Inc., and the carrier responsible for shipment. Do not discard the shipping container, which should be made available for inspection by the carrier.

For purposes of unit reference, the unit serial number located on the rear panel of the unit should be quoted in all communications.

### 3.2. Chassis Installation

The *ptf* 1226 chassis is supplied with rack ears ready for simple installation into a standard 19-inch rack frame/cabinet. For adequate support when mounted into the rack, a rear supporting bar or tray should be used as the rack ears are designed to secure the unit in the rack, NOT to support the full weight of the unit.

Attention should be given to the internal rack environment to insure the unit operates within it's specified operating temperature range of 0 to 50 deg. C also noting that the unit relies upon convection for cooling, so there should be sufficient air flow to accommodate this.

### 3.3. Power Connection

Power is supplied by connecting the supplied ac power cable to and AC source, at 120 or 230 V AC,  $\pm$ -15%. The AC input is a universal input – no range switching is required.

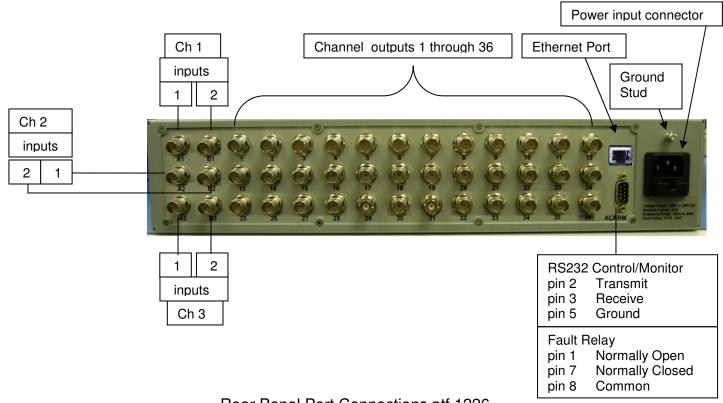
### 3.4. Input/Output Connections

BNC connectors are provided for the standard *ptf* 1226 inputs and outputs.

Connections are shown in the following section.

### 4. *ptf* 1226 – Operation

Operation of the *ptf* 1226 is extremely straightforward. Once all of the required input and output connections have been made power can be applied for the unit.



Rear Panel Port Connections ptf 1226

### 5. Monitor / Control Interfaces

### 5.1. Telnet

### 5.1.1. Command Format

The telnet interface is designed as a machine interface, and therefore characters sent to the unit are not echoed as this imposes undue difficulties on the transmitting device. Command format is of the form :

[Command][Space][Data][Enter]

Where;

Command is in the form DXX e.g. D01

Space is ASCII 32(decimal)

Data can be numbers, or characters according to the command

Enter is line feed/CR combination (ASCII 10 dec. and 13 dec.)

All entered characters are converted internally to UPPER CASE, therefore either upper or lower case characters can be used

Some commands are "locked" when the correct conditions are not set, e.g. the CH X input commands can only be executed when the desired channel mode is selected as Manual.

There are also several special commands that are of the form; [Command][Enter] e.g. the Status command.

Available commands are shown in section 5.1.3

In addition typing ;

[HELP][SPACE][COMMAND][ENTER] or typing [COMMAND][SPACE][?][ENTER]

Will display additional help information on the selected command.

### 5.1.2. Login

To login to the unit via the telnet interface, it is necessary to provide a user name and password. The user name is user definable, e.g. Admin. The password can be numbers only and the default password is 123456.

### 5.1.3. Commands

Command	Description	Туре	Range	Comments
D01	CH1 Input	String	Primary / Backup	Locked when in Auto
D02	CH1 Mode	String	Auto / Manual	
D03	CH2 Input	String	Primary / Backup	Locked when in Auto
D04	CH2 Mode	String	Auto / Manual	
D05	CH3 Input	String	Primary / Backup	Locked when in Auto
D06	CH3 Mode	String	Auto / Manual	
D07	Reserved			
D08	Reserved			
D09	Reserved			
D10	Reserved			
D11	Reserved			
D12	Reserved			
D13	Reserved			
D14	Reserved			
D15	Reserved			
D16	Reserved			
D17	Date (UTC)	String	MM/DD/YYYY	Only valid dates (Manual or NTP)
D18	Time (UTC)	String	HH:MM:SS	24 hour format (Manual or NTP)
D19	IP	XXX.XXX.XXX.XXX	IP address	
D20	NET MASK	XXX.XXX.XXX.XXX	Net Mask	
D21	GATEWAY	XXX.XXX.XXX.XXX	Gateway	
D22	DHCP	String	ON / OFF	
D23	PASSWORD	Number	1 > 2147483647	
D24	Set Default	Password		
D25	Reserved			
D26	Reserved			
D27	Baud Rate	Number	9600 19200	Baud rate for serial port

			57600	
D28	IP SNMP		IP	IP address of
D20	MGR	XXX.XXX.XXX.XXX		
D29		Otalia a	On / Off	SNMP manager
-	SNMP Traps	String		
D30	IP NTP SERV	XXX.XXX.XXX.XXX	IP	IP address of NTP server
D31	NTP u/d int	Integer	0 to	0 = no timeout
031		integer	100000(seconds)	
D32	Man Timeout	Integer	0 to	0 = no timeout
DOL	Mari Timeout	integer	100000(seconds)	
D33	TNET Port	Integer	1 to 65536	Telnet port number
D34	TNET Timer	Integer	0 to	0 = no timeout
004		integer	100000(seconds)	
D48	o/p Act.	Integer	1 to 36	Set output active
D49	o/p Inact.	Integer	1 to 36	Set o/p inactive
LOGOUT	Telnet	String	Logout	Logs out telnet
LOGOUT	Temet	Stillig	Logout	session
HELP	Print Help	String	Help	Prints help menu
VERS	Version	String	Vers	Displays s/w
				version
Macno	Macno	String	Macno	Display unit MAC
				#
Reset	Unit Reset	String	Reset	Restarts unit
Status	Unit Status	String	Status	Give channel
				status
OPSTAT	Digital Status	String	OPSTAT	
ANSTAT	Analog Stat.	String	ANSTAT	Analog o/p values
D34	Reserved			
D35	Reserved			
D36	Reserved			
D37	Reserved			
D38	Reserved			
D39	Reserved			
D40	Reserved			
D41	Reserved			
D42	Reserved			

### 5.1.4. Help Screens

When used with a standard interface such as Hyper terminal, it can be helpful to be able to quickly see available commands and their formats.

The unit includes both a summary help screen, that provides a quick reference for available commands, and reports the currently set values of the various parameters, and also multi-line help for each of the commands.

The summary screen is accessed by typing; [HELP][ENTER] at the command prompt and the multi line help for a single command is accessed by typing either; [HELP][SPACE][COMMAND][ENTER] or [COMMAND][SPACE][?][ENTER]

Examples of the help screens as displayed using the windows telnet utility are shown below;

Capabilities -> Normal + SNMP + TELNET + HTTP ptf AutoSwitch/Distribution Software Version 2.3-1 Login UserName> admin Password > 123456 Logged In > help All Commands Help. For more info on a single command type <help dxx=""> Name Cmd Current Value Name Cmd Current Value CH 1 Input D01 Backup CH 1 Mode D02 Auto CH 2 Input D03 Backup CH 2 Mode D04 Auto CH 3 Input D05 Backup CH 3 Mode D06 Auto DATE(UTC) D17 04/08/2010 TIME(UTC) D18 19:37:26 IP D19 192.168.000.018 NET MASK D20 255.255.240.000 GATEWAY D21 192.168.000.001 DHCP D22 Off PASSWORD D23 ****** SET DEFAULT D24 0 BAUD RATE D27 57600 IP SNMP MGR D28 192.168.000.001 SNMP TRAPS D29 On IP NTP Serv D30 000.000.000 NTP u/d int D31 86400 MAN Timeout D32 1800 TELNET LOGOUT</help>
Logged In > help All Commands Help. For more info on a single command type <help dxx=""> Name Cmd Current Value Name Cmd Current Value CH 1 Input D01 Backup CH 1 Mode D02 Auto CH 2 Input D03 Backup CH 2 Mode D04 Auto CH 3 Input D05 Backup CH 3 Mode D06 Auto DATE(UTC) D17 04/08/2010 TIME(UTC) D18 19:37:26 IP D19 192.168.000.018 NET MASK D20 255.255.240.000 GATEWAY D21 192.168.000.010 DHCP D22 Off PASSWORD D23 ****** SET DEFAULT D24 0 BAUD RATE D27 57600 IP SNMP MGR D28 192.168.000.010 SNMP TRAPS D29 On IP NTP Serv D30 000.000.000 NTP u/d int D31 86400 MAN Timeout D32 1800 TNET PORT D33 23</help>
> help         All Commands Help.       For more info on a single command type <help dxx="">         Name       Cmd       Current Value       Name       Cmd       Current Value         CH 1       Input D01       Backup       CH 1       Mode       D02       Auto         CH 2       Input D03       Backup       CH 2       Mode       D04       Auto         CH 3       Input D05       Backup       CH 3       Mode       D06       Auto         DATE(UTC)       D17       04/08/2010       TIME(UTC)       D18       19:37:26         IP       D19       192.168.000.018       NET MASK       D20       255.255.240.000         GATEWAY       D21       192.168.000.001       DHCP       D22       Off         PASSWORD       D23       *****       SET       DEFAULT       D24       0         BAUD RATE       D27       57600       SNMP TRAPS       D29       On       On         IP NTP Serv       D30       000.000.000       NTP u/d int D31       86400         MAN Timeout D32       1800       TNET PORT       D33       23</help>
IP         D19         192.168.000.018         NET MASK         D20         255.255.240.000           GATEWAY         D21         192.168.000.001         DHCP         D22         Off           PASSWORD         D23         ******         SET DEFAULT D24         0           BAUD         RATE         D27         57600         0           IP         SNMP         MGR         D28         192.168.000.010         SNMP TRAPS         D29         On           IP         SNMP         000.000.000.000         NTP u/d int D31         86400           MAN         Timeout         D32         1800         TNET         PORT         D33         23
IP NTP Serv D30 000.000.000 NTP u/d int D31 86400 MAN Timeout D32 1800 TNET PORT D33 23
o/p Act. D48 FFFFFFFFF o/p Inact. D49 FFFFFFF PRINT HELP HELP UERSION UERS Macno MACNO Reset RESET Status STATUS O/P Status OPSTAT Analog Vals ANSTAT
/ <b>_</b>

## Summary Help Screen

Telnet 192.168.0.18			
> > help All Commands Help. Name Cmd CH 1 Input D01 CH 2 Input D03 CH 3 Input D05	For more info on a : Current Value Backup Backup Backup Backup	single command type Name Cmd CH 1 Mode D02 CH 2 Mode D04 CH 3 Mode D06	<pre><help dxx=""> Current Value Auto Auto Auto</help></pre>
DATE(UTC) D17 IP D19 GATEWAY D21 PASSWORD D23 CLEAR LOG D25 BAUD RATE D27 IP SNMP MGR D28	04/08/2010 192.168.000.018 192.168.000.001 ******** 0 57600 192.168.000.010	TIME(UTC) D18 NET MASK D20 DHCP D22 SET DEFAULT D24 PRINT LOG D26 SNMP TRAPS D29	19:56:45 255.255.240.000 ≡ Off 0
IP NTP Serv D30 MAN Timeout D32 TNET Timer D34 Serl Events D35 DEFAULT IP D37 DEF GATEWAY D39 DIG Sw.Chan D41	122.100.000.000 1800 600 0ff 137.225.255.197 137.225.255.195 010	NTP u/d int D31 TNET PORT D33 TELNET LOGOU Tnet Events D36 DEF NMASK D38 RF Sw. Chan D40 Irig Sw Ch D42	86400 23
Sw Active D43 RF quad D45 Irig quad D47 o/p Inact. D49 i/p Inact. D51 quad Inact. D53 Unlk Sw Ch1 D55 Unlk Sw Ch2 D57	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Sw Inactive D44 Dig. quad D46 o/p Act. D48 i/p Active D50 quad Act. D52 Link Sw Ch1 D54 Link Sw Ch2 D56 Link Sw Ch3 D58	111 0 0 0 1 1 1 0 0 0 F F F F F F F F F F 1 1 1 1 1 1 1 1 F F F F
Unlk Sw Ch3 D59 An. Div. D61 PRINT HELP HELP Macno MACNO Status STATUS Analog Vals ANSTAT >	000 2731	An. Mult. D60 IP DNS D62 VERSION VERS Reset RESET O/P Status OPSTA Show cmds SHOWV	T
			~
		ala an anasifia sor	

Expanded help on specific commands

### 5.1.5. Status, Opstat, and Anstat Commands

The **Status** command is provided as a means of obtaining a quick summary of the status of the unit, and provides summary information on each of the Auto switch channels, together with other settings such as the Manual mode and telnet timeouts, Ethernet status etc.

> status		Distrib	ution Software + SNMP + TELNE		1000	
Channel CH 1 CH 2 CH 3 Manual M Telnet Ethernet Started Started Started Telnet so Telnet so Telnet so	tim Link s SNMP Se HTTP Se Telnet ession	e-out tatus rver rver Server active	Input Source Backup Backup Backup 1800 seconds 600 seconds UP YES YES YES YES admin	Primary Status Okay Okay Okay	Backup Status Okay Okay Okay	The second se

Status Screen

The **OPstat** command is provides a summary of the status of the Digital Outputs, and provides summary information on each of the output channels.

Telnet 192.168.0.18	×
ptf AutoSwitch/Distribution Software Version 2.3-1 Capabilities -> Normal + SNMP + TELNET + HTTP	
Digital Output/Input Status 0=Okay F=Fault I=Inactive	
!quad 1RF! !quad 2RF! !quad 3RF!         !o/p's!-i/p-aux! !o/p's!-i/p-aux!         !o/p's!-i/p-aux! !o/p's!-i/p-aux!         !01 02 03 04 X       X       05 06 07 08 X       09 10 11 12 X       X         F 0 0 0 F       0 F 0 0 0 0 0 F       0 0 0 0       F 0 0 0 0 0       Image: state s	
$ \begin{vmatrix} i 0^2 p^2 s i - i / p - aux \\ i 0^2 p^2 s i - i / p - aux \\ 13 14 15 16 \\ X \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	
quad 7IRIG   quad 8IRIG   quad 9IRIG   o/p's -i/p-aux   o/p's -i/p-aux   o/p's -i/p-aux  25 26 27 28 X X 29 30 31 32 X X 33 34 35 36 X X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
	Ľ,

### Opstat Screen

The **Anstat** command is provides a summary representation of the analog RF output values for each of the RF channel inputs and outputs.

Telnet 192.168.0.18	
> > > anstat	-
ptf AutoSwitch/Distribution Software Version 2.3–1 Capabilities -> Normal + SNMP + TELNET + HTTP	
Analog Output/Input Values	
quad 1 RF  o/p's i/p- aux  Chan 01 02 03 04 1 01 02 03 V(rms) 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	Ξ.
guad 2 RF  o/p's i/p- aux  Chan 05 06 07 08 2 04 05 06 V(rms) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
guad 3 RF  0/p's	
· -	

Anstat Screen

### Note:

Internally the outputs are provided through individual modules referred to as "Quad Blocks", providing 4 outputs (either RF, Digital, or Time Code) per module.

The unit is also divided into three rows of 12 outputs, the top row being referred to as Row A, the middle as row B, and the bottom as row C. Typically Quad Blocks of the same type will be fitted in the same row, with the maximum number of Quad Blocks per row being three. Standard configuration practice is to fit RF Quad Blocks in row A, Digital in row B, and Time Code in row C, however some configurations may not permit this i.e. if the unit is configured with 24 RF outputs (6 RF quad blocks), 4 Digital outputs(1 Digital quad block), and 4 Time Code outputs (1 Time Code quad block), the RF quad blocks would be fitted in rows A and B, and the Digital and Time Code quad blocks would be fitted in row C.

### 5.2.RS 232

### 5.2.1. Configuration

The RS232 port factory default setting is 57600-8N1, but may be changed through the RS232 menu.

### 5.2.2. Command Format

The RS232 command format has been designed to have an identical look and feel as the telnet interface. The main difference is that the RS232 is primarily provided for local control and therefore the commands are echoed.

For the command format please refer to section 5.1.1

### 5.2.3. Login

As the RS232 is designed for local access, no login is required to access this capability as physical presence is assumed.

### 5.2.4. Commands

Available commands are exactly the same as for the telnet interface. Please refer to section 2.1.3

### 5.2.5. Help Screens

The RS232 Help Screens are identical to those provided on the telnet interface. Please refer to section 2.1.4

### 5.2.6. Status Command

Format of the Status command is exactly the same as the format for the telnet interface. Please refer to section 2.1.5

### 5.3. SNMP Agent

### 5.3.1. General

The Auto switch/Distribution unit includes an SNMP agent (SNMPv1) using the standard UDP interface and providing basic information on the unit (location, capabilities etc.) together with traps on alarm conditions that are sent to the address set as the SNMP manager IP address.

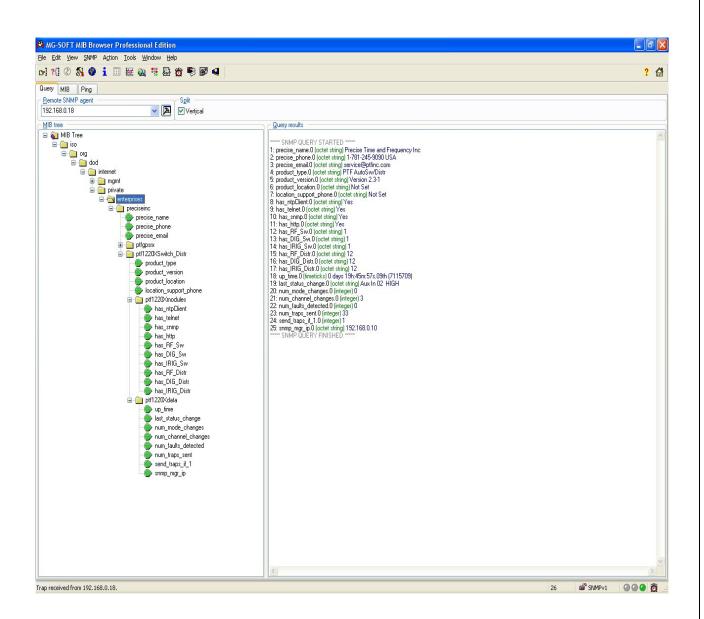
### 5.3.2. SNMP Queries and Traps

SNMP traps are available to provide summary event information to the SNMP manager. Specific traps available are;

Trap#1	Channel Mode Change (Auto/Manual)
Trap#2	Channel Input Change (Primary/Backup)
Trap#3	Channel Primary Input Status (Fault/Okay)
Trap#4	Channel Backup Input Status(Fault/Okay)
Trap#5	Input Status Change (Fault/Okay)
Trap#6	Output Status Change (Fault/Okay)
Trap#7	Auxiliary Input Status Change (High/Low)

Traps can be enabled or disabled from either the telnet or the serial Monitor/Control interface, or the SNMP interface.

Screen shots of the SNMP Query screen and trap ringer console after initiating a number of "trap" events, are shown below;



### SNMP Query Screen

Image: Specific transpression         Image: Specific transpression	IMP Trap Ringer Console	
10         Section Set Exception Control Contrel Contrel Control Control Contrel Control Control Control Contr		 
Image addes: 12:18:0.079:11:51 Tanget: PLUDP Patical SMMP1 Tap         Image addes: 12:18:0.079:11:52:03:13:44 PLUDP Patical SMMP1 Tap         Image addes: 12:18:00.079:11:52:03:13:44 PLUDP Patical SMMP1 Tap         Image addes: 12:18:00.079:11:52:03:13:44 PLUDP Patical SMMP1 Tap         Image addes: 12:18:00.079:11:52:18:01:14         Image addes: 12:18:00.079:11:11:14:14:14:14:14:14:14:14:14:14:14:		
Appet Adden: 12:18:00 Per List Tangot: PLUPP Patked SMM Tag     Magae Adden: 12:18:00 Per List Tangot: PLUPP     Softward 1: List Adue, Cargot: "Science Plus Adden: 12:18:00 Per List Tangot: PLUPP     Softward 1: List Adue, Cargot: "Science Plus Adden: 12:18:00 Per List Tangot: PLUPP Patked SMM Tag     Appet Adden: 12:18:00 Per List Adue, Cargot: "Science Plus Adden: 12:18:00 Per List Cargot: PLUPP Patked SMM Tag     Apart Adden: 12:18:00 Per List Cargot: PLUPP Patked SMM Tag     Apart Adden: 12:18:00 Per List Cargot: PLUPP Patked SMM Tag     Apart Adden: 12:18:00 Per List Cargot: PLUPP     Science Plus Plus Adden: 12:18:00 Per List Cargot: PLUPP     Science Plus Plus Adden: 12:18:00 Per List Cargot: PLUPP     Apart Adden: 12:18:00 Per List Cargot: PLUPP     Apart Adden: 12:18:00 Per List Cargot: PLUPP     Science Plus Plus Adden: 12:18:00 Per List Cargot: PLUPP     Apart Adden: 12:18:00 Per List Cargot: PLUPP     Science Plus Plus Adden: 12:18:00 Per List Cargot: PLUPP     Science Plus Plus Plus Adden: 12:18:00 Per List Cargot: PLUPP     Science Plus Plus Plus Plus Plus Plus Plus Plus		
Image adder: 12:18:00.19th; 12:1 ampot IPUDP           Image adder: 12:18:00.19th; 12:18:00.19th; 12:18:00.19th; 12:08:01.09th; 12:08:01.	Analysis address: 192158-018 both 151 Transport IP/I/DP Protocol SNMPv1 Tran	
BMPM sport adder: 12:18:00.18           Implementation of the state of th	Manager Address Advertige 100 at 102 transport PDI DD	
BMPM sport adder: 12:18:00.18           Implementation of the state of th		
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<ul> <li>NHMY agent address: 132:180.018</li> <li>Ending 11: last_status_change.0 *** (octes) [nput 07: FAULT</li> <li>Sinding 11: last_status_change.0 *** (octes) [nput 07: FAULT</li> <li>Sispectit tage 15 tag(v) [neceved tim: 192:180.018 at 4/8/2010 334.41 PM</li> <li>A pectit tage 15 tag(v) [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sispectit tage 15 tag(v) [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sispectit tage 15 tag(v) [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sispectit tage 15 tag(v) [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sispectit tage 15 tag(v) [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Community tap</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49 PM</li> <li>Sinding 4.00.000 [neceved tim: 192:180.018 at 4/8/2010 4.00.49</li></ul>	- B Manager address: 192.168.0.10 Port: 162 Transport: IP/UDP	
Image: Entreprise: procession           Image: Entreprise: Procession <td>- 🔩 Community: trap</td> <td></td>	- 🔩 Community: trap	
<ul> <li>Binding 11         <ul> <li>Binding 11</li> <li>Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 3.34.1 PM</li> </ul> </li> <li>Y 14 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 3.34.1 PM</li> <li>Y 15 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.004.9 PM</li> <li>T me targe: 0 days 00h; 25m 11: 60h</li> <li>Appent address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Manage address: 132 168.018 Port 151 Transport: IP/UDP Protocol: SNMPV1 Trap</li> <li>Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.49 PM</li> <li>Y 15 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.49 PM</li> <li>Y 15 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li> <li>Y 15 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li> <li>Y 25 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li> <li>Y 25 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li> <li>Y 25 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li> <li>Y 25 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li> <li>Y 25 Specific tap 15 tap(1) received from 132 168.018 at <i>Al8</i>/2010 4.00.54 PM</li></ul>		
Binding H1: Ist_ttatus_charge.0 *** (octet) Input 07 FAULT         ************************************		
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<ul> <li>4 14 Specific trap #5 tap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.45 PM</li> <li>T is Specific trap #5 tap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.45 PM</li> <li>F is specific trap #5 tap(1) received from: 120 168.018 at <i>All</i>/22010 4.00.45 PM</li> <li>Marager address: 132 168.018 Port: 151 Transport: IP/UDP Protocol: SNMFV1 Trap</li> <li>Marager address: 132 168.018 Port: 151 Transport: IP/UDP Protocol: SNMFV1 Trap</li> <li>Marager address: 132 168.018 Port: 151 Transport: IP/UDP Protocol: SNMFV1 Trap</li> <li>Marager address: 132 168.018 Port: 152 Transport: IP/UDP</li> <li>Sommaly: trap</li> <li>Sinding #11: last_status_charge.0.<sup>110</sup> (cottes) Dutput 25 Okay</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.49 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.49 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.49 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1) received from: 132 168.018 at <i>All</i>/22010 4.00.54 PM</li> <li>Specific trap #5 trap(1)</li></ul>		
<ul> <li>I 5 Specific tap B 5 tap(1) leceived from 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>B Fording II 1 eceived from 132 168.0.18 Port 161 Transport IP/UDP Protocol: SNMPV1 Tap</li> <li>Mager addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>SMMPV1 agert addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>B Mager addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>SMMPV1 agert addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>B Mager addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>SMMPV1 agert addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>B Mager addres: 132 168.0.10 Port 162 Transport IP/UDP</li> <li>B Mager addres: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.49 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.54 PM</li> <li>I 5 Specific tap II 5 tap(1) leceived from: 132 168.0.18 at 4/8/2010 4.00.24 PM</li></ul>		
<ul> <li>The starge 0 days 000 25m 11 s 00h</li> <li>Agent address 132 168 0.18 Port 151 Transport IP/UDP Protocot SNMPV1 Trap</li> <li>Manage address 132 168 0.18 Port 151 Transport IP/UDP Protocot SNMPV1 Trap</li> <li>Manage address 132 168 0.18 Port 152 Transport IP/UDP Protocot SNMPV1 Trap</li> <li>Shuffva gent address 132 168 0.18 Port 152 168 0.18</li> <li>Firstprits: precisienc</li> <li>Findings (1)</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.49 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.49 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.49 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.49 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.54 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.29 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.20 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.20 PM</li> <li>Specific trap 85 trap(v1) received from 132 168 0.18 at 4/8/2010 4.00.20 PM</li> <li>Specific tra</li></ul>		
Agent Addets: 152.188.018 Port 151 Transport IP/UDP Protocot SNMPV1 Trap           Manager addets: 152.188.018 Port 152 Transport IP/UDP Protocot SNMPV1 Trap           Manager addets: 152.188.018 Port 152 Transport IP/UDP           Monthal Street Stre		
WHVP/1 agent address: 132:168.0.18           Enterprise: preciseinc           Is Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.49 PM           15 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.49 PM           15 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           20 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           21 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           22 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           23 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           24 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           25 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           26 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           27 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           28 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           29 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           20 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00	ime stamp: U days UUr. Zom T1s. bUth	
WHVP/1 agent address: 132:168.0.18           Enterprise: preciseinc           Is Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.49 PM           15 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.49 PM           15 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           20 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           21 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           22 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           23 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           24 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           25 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           26 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           27 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           28 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           29 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           20 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00	Agent address: 192 I 58.U 18 Hort. I 51 Transport. IP/DUP Protocol: SNMHV1 Trap	
WHVP/1 agent address: 132:168.0.18           Enterprise: preciseinc           Is Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.49 PM           15 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.49 PM           15 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           20 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           21 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           22 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           23 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.54 PM           24 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           25 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           26 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           27 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           28 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           29 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00.25 PM           20 Specific trap B5 trap(1) (neceed form: 132:168.018 at 4/8/2010 4.00	Marager address: 192, 168,0, 10 Port: 162 Transport: IP/UDP	
Implementation         Enterprise: preciseinc           Implementation         Enterprise: precinic precinic precisein from: 132: 188:0.18 at 4/8/2010 4:0.02 P		
<ul> <li>Binding (1)         <ul> <li>Binding (1)</li> <li>Binding (1)</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.49 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.49 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.49 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.49 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.49 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.54 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010 4:00.25 PM</li> <li>Specific tap (1) teceived form: 132:168:0.18 at 4/8/2010</li></ul></li></ul>		
Pinding #1: Ideat_Idua_charge 0.************************************		
<ul> <li>17. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.49 PM</li> <li>18. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.49 PM</li> <li>19. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>20. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>21. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>22. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>23. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>24. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>25. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>26. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>26. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.54 PM</li> <li>26. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>27. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>28. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>29. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>29. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>29. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>29. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>29. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>29. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>20. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>20. Specific trap #5 trap(1) received from: 132:168.018 at 4/8/2010 4.00.27 PM</li> <li>20. Spece</li></ul>		
#1       8. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.49 PM         #1       8. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.54 PM         #2       0.5 specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.54 PM         #2       15. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.54 PM         #2       25. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.54 PM         #2       25. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.54 PM         #2       25. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       25. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       25. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       25. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       26. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       26. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       27. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.24 PM         #2       28. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.44 PM         #2       28. Specific tag #5 tag/v1) received from: 132 168.0.18 at 4/8/2010 4.00.44 PM         #2       35. Specific tag #5 tag/v1) receiv		
# 19. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.005.4 PM         # 20. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.005.4 PM         # 21. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.005.4 PM         # 22. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.005.4 PM         # 23. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 24. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 25. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 26. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 26. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 26. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 27. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 26. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.2 PM         # 27. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.4 PM         # 27. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.4 PM         # 28. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.4 PM         # 29. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.4 PM         # 29. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.4 PM         # 29. Specific tap #5 tap(Y) received from: 132 168.018 at 4/8/2010 4.010.4 PM		
20         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:54 PM           21         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:54 PM           22         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:54 PM           24         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:54 PM           24         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:24 PM           24         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:24 PM           25         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:24 PM           26         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:24 PM           27         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:24 PM           27         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:24 PM           27         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:04 PM           28         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:04 PM           29         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:04 PM           29         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:04 PM           20         Specific trap #5 trap(v1) received from: 132: 168:0.18 at 4/8/2010 4:00:04 PM           20		
<sup>47</sup> <sup>47</sup> <sup>15</sup>		
#/ 22. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.00.54 PM           #/ 23. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.02 PM           #/ 24. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.02 PM           #/ 25. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.02 PM           #/ 25. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.02 PM           #/ 25. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.02 PM           #/ 25. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 25. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 26. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM           #/ 30. Specific trap #5 trap(1/1) received from: 132.168.018 at 4/8/2010.4.01.04 PM		
4/2       45       Specific trap #6 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       55. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       25. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       25. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       25. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       26. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       26. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       26. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       35. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/3       36. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM		
4/2       45       Specific trap #6 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       55. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       25. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       25. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.02 PM         4/2       25. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       26. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       26. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       26. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/2       35. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM         4/3       36. Specific trap #5 trap(V) received from: 132.168.0.18 at 4/8/2010.4.01.04 PM	23: Specific trap #5 trap[v1] received from: 192.168.0.18 at 4/8/2010 4:01:02 PM	
#2         25         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.02 PM           #2         25         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.02 PM           #2         25         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM           #2         25         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM           #2         26         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM           #2         26         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM           #2         26         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM           #3         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM           #3         Specific trap #5 tap(v)   received from: 132:168.018 at 4/8/2010.4.01.04 PM		
4// 26: Specific trap #5 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:03 PM         4// 27: Specific trap #5 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:04 PM         4// 28: Specific trap #6 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:04 PM         4// 26: Specific trap #5 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:04 PM         4// 26: Specific trap #5 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:04 PM         4// 30: Specific trap #5 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:04 PM         4// 30: Specific trap #5 trap(v1) received from: 192,168.0.18 at 4/8/2010 4.01:04 PM		
28. Specific trap #6 trap(v1) received from: 192.168.0.18 at 4/8/2010.4.01:04 PM         29. Specific trap #5 trap(v1) received from: 192.168.0.18 at 4/8/2010.4.01:04 PM         20. Specific trap #5 trap(v1) received from: 192.168.0.18 at 4/8/2010.4.01:04 PM	26: Specific trap #5 trap(v1) received from: 192.168.0.18 at 4/8/2010 4.01:03 PM	
AV 23: Specific trap #5 trap(V) received from: 192 168.0.18 at 4/8/2010 4.01:04 PM AV 30: Specific trap #5 trap(V) received from: 192 168.0.18 at 4/8/2010 4.01:04 PM	✓ 27: Specific trap #5 trap(v1) received from: 192.168.0.18 at 4/8/2010 4:01:04 PM	
4/ 30. Specific trap #5 trag/v1) received from: 132.168.0.18 at 4/8/2010 4.01:04 PM	28: Specific trap #6 trap(v1) received from: 192.168.0.18 at 4/8/2010 4:01:04 PM	
NMP notifications received.		

SNMP Trap Ringer Screen

### 5.4. SNMP SMI/MIB Files

The SMI and MIB files for the SNMP manager are shown in the following pages;

```
SMI File;
        -- Precise-SMI.txt: Precise Time and Frequency Enterprise
                     Structure of Management Information
        ---
        -- September 2003 Les Herbst
        -- Copyright (c) 2003 by PTF Inc
        -- All rights reserved.
        Precise-SMI DEFINITIONS ::= BEGIN
        IMPORTS
                OBJECT-TYPE
                         FROM RFC-1212
                enterprises,
                mgmt
                         FROM RFC1155-SMI;
        -- Node Definitions
          -- try and add a small subset of SNMP2
          -- 1.3.6.1.2.1
          mib-2 OBJECT IDENTIFIER ::= { mgmt 1 }
          -- 1.3.6.1.2.1.1
          system OBJECT IDENTIFIER ::= { mib-2 1 }
                 -- 1.3.6.1.4.1.18507
                preciseinc OBJECT IDENTIFIER ::= { enterprises 18507 }
                 -- 1.3.6.1.2.1.1.1
                ptfproduct OBJECT IDENTIFIER ::= { system 1 }
          -- Note, leaf nodes under ptfproduct 1-4 are
          -- prod type
                 -- prod version
                 -- prod location
                -- prod local support phone
                -- then comes modules folder
          -- 1.3.6.1.2.1.1.1.5
          ptfmodules OBJECT IDENTIFIER ::= { ptfproduct 5 }
           -- 1.3.6.1.2.1.1.1.6
          ptfdata OBJECT IDENTIFIER ::= { ptfproduct 6 }
```

MIB File;

--

-- -- Copyright 2009 Precise Time and Frequency Inc

-- DESCRIPTION:

-- This file contains the ptf 1220X Auto Switch with Distribution

- -- Remote Monitor private MIB.

PRECISE1220Xv3-MIB DEFINITIONS ::= BEGIN

IMPORTS OBJECT-TYPE FROM RFC-1212 preciseinc

-- ptf1220Xswitch\_distr,

-- ptf1220Xmodules,

-- ptf1220Xdata FROM Precise-SMI;

-- 1.3.6.1.4.1.18507.9 ptf1220XSwitch\_Distr OBJECT IDENTIFIER ::= { preciseinc 9 }

- -- Note, leaf nodes under ptfproduct 1-4 are
- -- prod type
- -- prod version
- -- prod location
- -- prod local support phone
- -- then comes modules folder
- -- 1.3.6.1.4.1.18507.9.7.10

ptf1220Xmodules OBJECT IDENTIFIER ::= { ptf1220XSwitch\_Distr 7 }

-- 1.3.6.1.4.1.18507.9.8.8 ptf1220Xdata OBJECT IDENTIFIER ::= { ptf1220XSwitch\_Distr 8 }

-- 1.3.6.1.4.1.18507.1 precise\_name OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { preciseinc 1 } -- 1.3.6.1.4.1.18507.2 precise\_phone OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { preciseinc 2 }

-- 1.3.6.1.4.1.18507.3 precise\_email OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { preciseinc 3 }

-- So it goes private-enterprises-preciseinc - ptfproduct -producttype

-- assume only one 'product' or device handled by one resident snmp agent

-- on that product

-- 1.3.6.1.4.1.18507.9.1 product\_type OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220XSwitch Distr 1 }

-- 1.3.6.1.4.1.18507.9.2 product\_version OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220XSwitch\_Distr 2 }

-- 1.3.6.1.4.1.18507.9.3 product\_location OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-write STATUS mandatory ::= { ptf1220XSwitch\_Distr 3 }

-- 1.3.6.1.4.1.18507.9.4 location\_support\_phone OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-write STATUS mandatory ::= { ptf1220XSwitch Distr 4 }

-- 1.3.6.1.4.1.18507.9.7.1 has\_ntpClient OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 1 }

-- 1.3.6.1.4.1.18507.9.7.2 has\_telnet OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 2 }

-- 1.3.6.1.4.1.18507.9.7.3 has\_snmp OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 3 }

-- 1.3.6.1.4.1.18507.9.7.4 has\_http OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 4 }

-- 1.3.6.1.4.1.18507.9.7.5 has\_RF\_Sw OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 5 }

-- 1.3.6.1.4.1.18507.9.7.6 has\_DIG\_Sw OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 6 }

-- 1.3.6.1.4.1.18507.9.7.7 has\_IRIG\_Sw OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 7 }

-- 1.3.6.1.4.1.18507.9.7.8 has\_RF\_Distr OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 8 }

-- 1.3.6.1.4.1.18507.9.7.9 has\_DIG\_Distr OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 9 }

-- 1.3.6.1.4.1.18507.9.7.10 has\_IRIG\_Distr OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xmodules 10 }

---

-- 1.3.6.1.4.1.18507.9.8.1 up\_time OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory ::= { ptf1220Xdata 1}

-- 1.3.6.1.4.1.18507.9.8.2 last\_status\_change OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-only STATUS mandatory ::= { ptf1220Xdata 2}

-- 1.3.6.1.4.1.18507.9.8.3 num\_mode\_changes OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory ::= { ptf1220Xdata 3 }

-- 1.3.6.1.4.1.18507.9.8.4 num\_channel\_changes OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory ::= { ptf1220Xdata 4 }

-- 1.3.6.1.4.1.18507.9.8.5 num\_faults\_detected OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory ::= { ptf1220Xdata 5 }

-- 1.3.6.1.4.1.18507.9.8.6 num\_traps\_sent OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory ::= { ptf1220Xdata 6 }

-- Command and Control

-- 1.3.6.1.4.1.18507.9.8.7 send\_traps\_if\_1 OBJECT-TYPE SYNTAX Counter ACCESS read-write STATUS mandatory ::= { ptf1220Xdata 7 }

-- 1.3.6.1.4.1.18507.9.8.8 snmp\_mgr\_ip OBJECT-TYPE SYNTAX OCTET STRING ACCESS read-write STATUS mandatory ::= { ptf1220Xdata 8 }

END

--

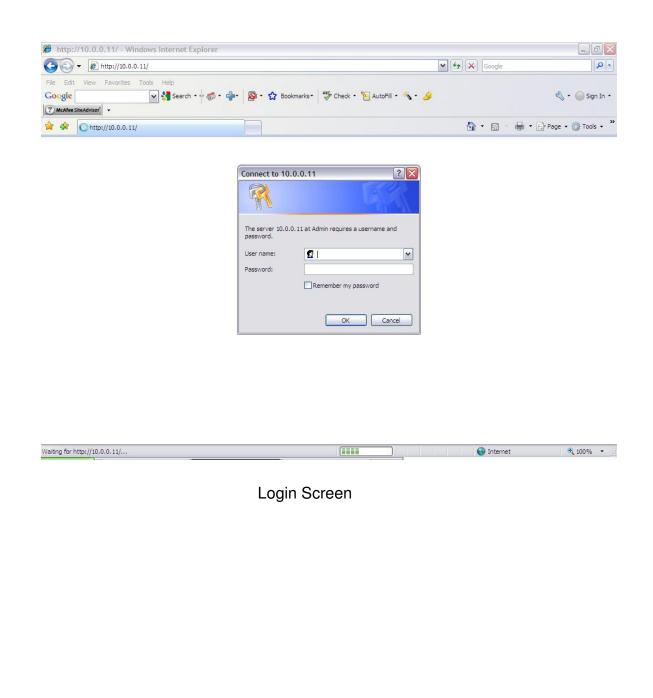
### 5.5. HTTP, Web Interface

The ptf 1226 web interface allows a sub set of the commands to be entered via a web page through a standard web browser. The commands available on the web interface are shown in the table below, and can also be viewed on the web interface "vali commands" page;

Command	Description	Туре	Range	Comments
D01	CH1 Input	String	Primary / Backup	Locked when in
				Auto
D02	CH1 Mode	String	Auto / Manual	
D03	CH2 Input	String	Primary / Backup	Locked when in
				Auto
D04	CH2 Mode	String	Auto / Manual	
D05	CH3 Input	String	Primary / Backup	Locked when in
				Auto
D06	CH3 Mode	String	Auto / Manual	
D17	Date (UTC)	String	MM/DD/YYYY	Only valid dates
				(Manual or NTP)
D18	Time (UTC)	String	HH:MM:SS	24 hour format
				(Manual or NTP)
D19	IP	XXX.XXX.XXX.XXX	IP address	
D20	NET MASK	XXX.XXX.XXX.XXX	Net Mask	
D21	GATEWAY	XXX.XXX.XXX.XXX	Gateway	
D22	DHCP	String	Off or On	
D23	Password	integer	Numbers only	
D27	Serial Port	9600, 19200,		
	Baud Rate	or 57600		
D28	IP snmp mgr	XXX.XXX.XXX.XXX		
D29	SNMP traps	String	ON or OFF	
D30	IP NTP serv.	XXX.XXX.XXX.XXX		
D31	NTP update	integer	0, 2 to 100000	0=no update
D32	Man. timeout	integer	0 to 100000 secs	0=no timeout
D33	Telnet Port	integer	1 to 65536	Default=23
D34	Tnet timeout	integer	1 to 100000 secs	0=no timeout
Status	Status	string	Status	Give channel status
Anstat	Analog stats	string	Anstat	Analog o/p values
Logout	Logout telnet			
Reset	System			
	restart			

### 5.5.1. Web pages

To log onto the web pages the user must enter a user name and the system password. User name for the web interface is "admin" (all lower case). The log in screen and web pages are shown below;



Command Entry
<i>ptf</i> Precise Time and Frequency, Inc.
Enter the Command Number (Example D01)         I you leave the value empty, its current setting will be returned.         Command Number (
Command Entry Page
Command: status
AutoSwitch/Distribution Version 2.3-1 Capabilities -> SNMP HTTP TELNET Auto Switch Status
Channel_TypeModeInput Source_Primary Status_Backup Status CH 1RFAutoBackupOkayOkay CH 2DIGAutoBackupOkayOkay CH 3IRIGAutoBackupOkayOkay
Digital Output/Input Status O=Okay F=Fault I=Inactive quad 1RF
quad 4DIG   quad 5DIG  
quad 7IRIG   quad 8IRIG   quad 9IRIG   0/p's -i/paux   25-26-27-28 XX   29-30-31-32 XX   33-34-35-36 XX  000000000000
Status Response Page

P	Results

#### +

#### Command: anstat Analog Output/Input Values

quad 1 RF |------o/p's------|--i/p-|----aux------| Chan-----01----02----03----04----- 1----01----02----03 V(rms)-----0.00--0.00--0.00--0.00--0.00--0.00--0.00

quad 2 RF |------o/p's------|--i/p-|----aux------| Chan-----05----06----07----08-----2----04----05----06 V(rms)-----0.00--0.00--0.00--0.00--0.00--0.00--0.00

quad 3 RF |------o/p's------|--i/p-|----aux-----| Chan-----09---10---11---12---- 3---07---08---09 V(ms)----0.00--0.00--0.00--0.00--0.00--0.00--0.00

Another Command

Done

### Anstat Response Page

To logout of the web interface close the browser.

### 5.6. Local (Front Panel)

The ptf 1226 Auto switch/Distribution unit front panel layout is shown below;



### Front Panel Layout

### 5.6.1. Commands

Each of the (three) input channels of the unit can be configured as either in Auto or Manual mode.

If a channel is in Auto mode, the Auto switch monitors the health of the selected input and if the selected input goes unhealthy, the channel will automatically switch to the other input.

Each channel of the unit can be toggled between Auto and Manual mode by momentarily depressing the MODE membrane switch for that channel.

If a channel is in Manual mode, the input channel can be switched by momentarily pressing the CHANNEL membrane switch. Pressing the CHANNEL switch again will toggle the channel back to the original input. In Auto mode the CHANNEL switch is not operational.

### 5.6.2. Monitors

Each switch channel includes indicators for channel mode (red LED illuminates when channel mode is selected as Manual) and bi-color green /red LEDs for channel input selected (green=primary, red=backup).

When in Auto mode, the unit will not switch to a faulty input, even if the currently selected input goes into fault. In Manual mode, the input can be switched regardless of whether or not the destination input is in a fault mode. A local summary alarm monitor is provided on a 9 pin D type connector located on the unit rear panel. The output is on clean relay contacts.

### 6. Maintenance

### 6.1. Overview

The *ptf* 1226 Auto Switch/Distribution unit uses state-of-the art solid state and semi-conductor, primarily surface mount, components.

All of the components are selected for their inherent high reliability, and advanced techniques with highly sophisticated equipment, are used for assembly and test of the unit.

Due to the above, no periodic maintenance of the unit is required and the units can be expected to deliver many years of trouble free operation.

Any maintenance or service of the unit should be performed at a Precise Time and Frequency, Inc. authorized facility, to insure the appropriate equipment and expertise is available. 7. Contact Information – Technical Assistance

The Precise Time and Frequency, Inc service department normal hours of operation are from Monday to Friday, between the hours of 8.00 a.m. and 5.00 p.m. US Eastern Standard Time.

Before returning any equipment for service or repair please contact our service department for an RMA number.

Tel: (+1) 781 245 9090 Fax: (+1) 781 245 9099 E-mail: service@ ptfinc.com

Shipping address is:

Precise Time and Frequency, Inc. 50L Audubon Road Wakefiel, MA 01880 USA

Attn: Service Manager

Billing address is:

Precise Time and Frequency, Inc. 50L Audubon Road Wakefield, MA 01880 USA

Attn: Accounts