PTC2000 Time Convertor Operation Manual



Kyland Technology (Shanghai) Co., Ltd.

Version Copyright

R7

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Notice for Safety Operation

The product performs reliably as long as it is used according to the guidance. Artificial damage or destruction of the device should be avoided. Before using the device, read this notice carefully for personal and equipment safety. Please keep the manual for further reference.

- Do not place the device near water sources or damp areas. Keep the ambient relative humidity within the range from 5% to 95% (non-condensing).
- Do not place the device in an environment with high magnetic field, strong shock, or high temperature. Keep the working and storage temperatures within the allowed range.
- Install and place the device securely and firmly.
- Please keep the device clean; if necessary, wipe it with a soft cotton cloth.
- Do not place any irrelevant materials on the device or cables. Ensure adequate heat dissipation and tidy cable layout without knots.
- Wear antistatic gloves or take other protective measures when operating the device.
- Avoid any exposed metal wires because they may be oxidized or electrified.
- Install the device in accordance with related national and local regulations.
- Before power-on, make sure the power supply is within the allowed range of the device. High voltage may damage the device.
- Power connectors and other connectors should be firmly interconnected.
- Do not plug in or out the power supply with wet hands. When the device is powered on, do not touch the device or any parts with wet hands.
- Before operating a device connected to a power cable, remove all jewelry (such as rings, bracelets, watches, and necklaces) or any other metal objects, because they may cause electric shock or burns.
- Do not operate the device or connect or disconnect cables during an electrical storm.
- Use compatible connectors and cables. If you are not sure, contact our sales or technical support personnel for confirmation.
- Do not disassemble the device by yourself. When an anomaly occurs, contact our sales or technical support personnel.
- If any part is lost, contact our sales or technical support personnel to purchase the substitute. Do not purchase parts from other channels.
- Dispose of the device in accordance with relevant national provisions, preventing

environmental pollution.

In the following cases, please immediately shut down your power supply and contact your Kyland representative:

- Water gets into the equipment.
- Equipment damage or shell damage.
- Equipment operation or performance has abnormally changed.
- The equipment emits odor, smoke or abnormal noise.

Indicator Flag

1	Note	Highlight the important information and use of skills, necessary to the operation of your tips, supplement and instructions.
	Attention	Remind you of operation must be pay attention to and follow such as not operating in accordance with the requirements, equipment damage may arise or other unpredictable result.
*	Alarm	Warning you could potentially dangerous situation, if unavoidable, may cause serious personal injury.

1.

Basic Features

1.1. Introduction



[Figure 1-1] PTC2000 Time Convertor

PTC2000 is a multifunction time convertor. PTC2000 is designed for DIN Rail Mount requirements. It is a compact and provides time conversion service for any industry fields. It supports PTP (Precision Timing Protocol), IRIG-B as input time sources. Based on the multiple time source input PTC2000 has multi-time source selection logical inside to implement time conversion function. It also supports PTP (Precision Timing Protocol), NTP (Network Time Protocol), IRIG-B, 1PPS, 1PPM, 1PPH and TOD etc. time synchronization signal output as time synchronization purpose. The default embedded WEB service provides system management.

2.



2.1. Device Identification



[Figure 2-1] PTC2000 Front Panel

Table 1 – Front Panel of PTC2000

No.	Name	Description		
(1)	Alarm	System Alarm		
(2)	LOCK	Time Lock		
(3)	AC(1-2)	Two IRIG-B modulated output ports		
(4)	P(1-4)	Four Terminal TTL output ports, IRIG-B/PPS configurable		
(5)	BNC	Two BNC TTL output ports, IRIG-B/PPS configurable		
(6)	TOD	One TOD interface		
(7)	ETH0	ETH0, Copper and Optical multiplex Ethernet interface		
(8)	ETH1	ETH1, Copper and Optical multiplex Ethernet interface		
(9)	FO	Optical Fiber output port		
(10)	FI	Optical Fiber input port		



[Figure 2-2] PTC2000 Top Panel

Table 2 – Top Panel of PTC2000

No.	Name	Description
(1)	0	Grounding Screw
(2)	Console	Console Port
(3)	ті	TTL Input port
(4)	DO	Contact output port
(5)	ALARM	Alarm output port
(6)	PWR	Power Input

2.2. Indicator Lights

The Screen has two lines to indicate system information.

Name	Definition	Status	Description
ALARM	System Alarm	On	Device is abnormal.
	System Alarm	Off	Device is normal.
		Flash(1 second)	Clock is locked.
LOCK	Time Lock	Flash(3 seconds)	Clock is holded.
		Off	Clock is unlocked.

Table 3 – Indicator Lights of PTC2000

Note:

- ▲ The enclosure is one part of the whole cooling system. Don't cover it when it works.
- ▲ The picture of Manual is only schematic. Please refer to real device.

WEB Operations

3.1. Login

3.

Please connect ETHO of PTC2000 time convertor and PC by network cable. Open any WEB Browser of PC and input <u>http://192.168.0.111</u> and press enter, the login WEB screen of PTC2000 time convertor will be shown on your screen.

Login	
Name:	
admin	
Password:	
Submit	
甲文	

[Figure 3-1] Login Screen

The default user name is 'admin', the default password also is 'admin'. PTC2000 time convertor supports user to modify the password of 'admin' after you login WEB management system.

Before you access WEB management system of PTC2000 time convertor, please confirm you might access this Ethernet port, if find any problems you should check the network whether or not is ready, maybe connection cable has some broken or something else.

3.2. Logout

After you submit your correct user name and password, the default screen of WEB management system will be shown as:

KYLAND Kylai	KYLAND Kyland Technology Co., Ltd.							
🔳 Status	Configuration	🕆 🏠 System	💄 Management					
Status	Source Statu	IS						
Source Status	Source Channe	I: IRIG-B1	\sim					
Clock Status								
	No	Name		Sta	tatus			
	1	Source Status		Ala	Alarm			
	2	Source Bump Status		No	Normal			
	3	Source Priority		3	3			

[Figure 3-2] Default Login Screen

On the top right corner, system has a [Logout] option, if you want to logout system, you might directly click this and then system will go to original login screen and wait user to input login information again.

3.3. Languages

The default language is English, the WEB management system of PTC2000 time convertor supports English and Chinese. System can switch language to Chinese language by [中文] option on login screen and default screen.

3.4. Status

The WEB management system supports to view time status by WEB. The status information can help user to easy know the current status and help them to analyze problems as soon as possible.

Press 'Status' to go to the status screen on the top of navigation bar. The status screen will be shown as:

KYLAND Kylar	KYLAND Kyland Technology Co., Ltd.							ł
🔳 Status		Configuration	🍲 System	Management				
Status		Source Statu	s					Þ
Source Status		Source Channel	: IRIG-B1	\checkmark				
Clock Status								
		No	Name		Status			
		1	Source Status		Alarm			
		2	Source Bump Status		Normal			
		3	Source Priority		3			

[Figure 3-3] Status Screen

3.4.1. Source Status

Press 'Source Status' on the left navigation bar to show time status screen. The source status screen will be shown as:

KYLAND Kylan	KyLAND Kyland Technology Co., Ltd.						
🔳 Status	Configuration	🛛 🏠 System	📓 Management				
Status	Source State	IS					
Source Status	Source Channe	I: IRIG-B1	\sim				
Clock Status							
	No	Name			Status		
	1	Source Status			Alarm		
	2	Source Bump Status			Normal		
	3	Source Priority			3		

[Figure 3-4] Source Status Screen

The time source status shows the work status of any time source. The PTC2000 time convertor supports 3 source channels including SAT1/IRIG-B1/PTP.

Select different time source channel by manual and the time status of this source will be shown on this screen. For example, if you select SAT1, you might see source status, satellite number, antenna status, and source bump status and source priority. The 'Normal' means this status is OK, if it has some problems, maybe it will show 'Alarm' information.

3.4.2. Clock Status

Press 'Clock Status' on the left navigation bar to show clock status screen. The clock status screen will be shown as:

KyLAND Kyland Technology Co., Ltd.							
🗂 Status		Configuration	🗟 System 🔳 Management				
Status		Source Status	Clock Status				
Source Status		No	Name	Status			
Clock Status		1	Selected Source	SAT1			
		2	Lock Status	Locked			
		3	Initial Status	Initialized			
		4	Hold Status	Tracking			
		5	Version	R7.51			

[Figure 3-5] Clock Status Screen

To show the current selected source, inside temperature and the current work status including initial, lock, hold status, position information and version information of PTC2000 time convertor.

3.5. Configuration

The WEB management system supports to set configuration parameter by WEB. The user does not need go to local place to set parameter when time convertor supports this configuration interface. It is a good option for user to easy manage time convertor.

Press 'Configuration' to go to the configuration screen on the top of navigation bar. The screen will be shown as:

KYLAND Kylar	Kアルムハク Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文							
🔳 Status		Configurati	on 🍲 System 🔳 Managem	ient				
Configuration		SYNC			2			
SYNC CLOCK		Source Channe	el: IRIG-B1 V					
NTP		No	Name	Parameter	Range			
PTP		1	Source Priority	Level-3 \checkmark				
OUTPUT		2	Source Mode	SYNC ~				
NETWORK		3	Input Channel	FI ~				
		4	Time Format	DC+ ~				
		5	UTC Offset	0.00	-12,12			
		Basic Informat	ion:					
		No	Name	Parameter	Range			
		1	Working Mode	Single				
	1			Save				

[Figure 3-6] Configuration Screen

3.5.1. Sync Source Settings

Press 'SYNC' on the left navigation bar to show synchronization source setting screen. The sync source setting screen will be shown as:

KYLAND Kyland Technology Co., Ltd. Wekome!!! [Logout] 中文								
🗈 Status	Configuration 🕹 System							
Configuration	SYNC			Þ				
SYNC CLOCK	Source Channe	el: IRIG-B1 V						
NTP	No	Name	Parameter	Range				
PTP	1	Source Priority	Level-3 \checkmark					
OUTPUT	2	Source Mode	SYNC ~					
HEIWORK	3	Input Channel	FI ~					
	4	Time Format	DC+ ~					
	5	UTC Offset	0.00	-12,12				
	Basic Informat							
	No	Name	Parameter	Range				
	1	Working Mode	Single					
	1		Save					

[Figure 3-7] Sync Source Setting Screen

Item	Valid	Parameter	Description
Sourco	IRIG-B1		Set the priority for external signal
Briority	IRIG-B2	1~10	source. 1 is highest source and 10 is
Phoney	PTP		lowest source.
			To set source working mode. SYNC is
Source			individual sync source, PEER is
Mode		STICFLER/NONE	redundancy sync source and NONE is
	r i r		anything to do.
Input	IRIG-B1	EI	To set IPIC Plipput time signal
Channel	IRIG-B2	ΓI	io set inio-biniput time signal.
Timo			To set IRIG-B1input format, including
Format		DC+/DC-	DC+ (positive polarity DC), DC-(negative
Format	INIG-D2		polarity DC) IRIG-B signal.
UTC	IRIG-B1	0.004	Set time offset between IRIG-B and
Offset	IRIG-B2	0.0011	UTC.
Working			Single source enabled(only one good
Mada		Single	external source can make clock to
woue			work)

Table 4 – Sync	Source	Setting
----------------	--------	---------

Press 'Save' button to save the current setting when you change setting.

3.5.1. Clock Settings

Press 'CLOCK' on the left navigation bar to show clock setting screen. The clock setting screen will be shown as:

איזער אין Kyland Technology Co., Ltd. Welcome!!! [Logout] איז Welcome!!! [Logout] איז					
🗂 Status		Configurat	<mark>ion</mark> 🎓 System 🔳 Manag	gement	
	٠	SYNC	CLOCK		
SYNC		Information:			
NTP		No	Name	Parameter	Range
PTP		1	Time Reference	итс ~	
NETWORK		2	Time Zone	0.00	-12,12
		3	TAI UTC Offset	37	-32768,32767
		4	Output Mode	Lock	
		DST:			
		No	Name	Parameter	Range
		1	DST Offset	0.00	-12,12
		2	DST Mode	LOCAL	
		3	Start Index	1st 🗸	
		4	Start Weekday	SUN 🗸	
		5	Start Month	JAN 🗸	
		6	Start Time	00:00	00:00~24:00
		7	Stop Index	1st 🗸	
		8	Stop Weekday	SUN 🗸	
		9	Stop Month	JAN 🗸	
		10	Stop Time	00:00	00:00~24:00
				Save	

[Figure 3-8] Clock Setting Screen

Table 5 –	Clock Setting
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Items	Parameters	Description
Time Reference	UTC / TAI	Set UTC time or TAI time as required
Time Zone	0.00H	Set time zone offset to ensure required
	0.0011	time zone display.
TAI UTC Offset	35s	Set time zone offset between TAI and UTC.
		Always means time server has output
Output Mode	Always/Lock	signals in any status. Lock means time
		server only has output signals after timer
		server is locked by external time source.
	0.00H	Set how many hours need to adjust at DST
DSTONSEL	0.00H	period.
		Set use which reference time to convert
DST Mode	UTC/LUCAL	DST time.
Start Index	1 st /2 nd /3 rd /4 th /5 th /Last	
Ctart Maakday	MON/TUE/WEN/THU	Set start date of DST.
Start weekday	/FRI/SAT/SUN	



Items	Parameters	Description
	JAN/FEB/MAR/APR/MAY/J	
Start Month	UN/JUL/AUG/SEP/OCT/NO	
	V/DEC	
Start Time	00:00~24:00	
Stop Index	1st/2nd/3rd/4th/5th/Last	
	MON/TUE/WEN/THU	
зтор меекаау	/FRI/SAT/SUN	
	JAN/FEB/MAR/APR/MAY/J	Set stop date of DST.
Stop Month	UN/JUL/AUG/SEP/OCT/NO	
	V/DEC	
Stop Time	00:00~24:00	

Press 'Save' button to save the current setting when you change setting.

3.5.2. NTP Settings

Press 'NTP' on the left navigation bar to show NTP setting screen. The NTP setting screen will be shown as:

KツLAND Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文				
🔳 Status	Configurat	<mark>tion</mark> 🎓 System 🔳 Manageme	ent	
Configuration	SYNC	CLOCK NTP	×	
SYNC	No	Name	Parameter	Range
CLOCK	1	NTP Server		
NTP	-			10.10
PTP	2	NIP UIC Offset	0.00	-12,12
NETWORK				
NEIWORK			Save	

[Figure 3-9] NTP Setting Screen

Table 6 – NTP Setting

Items	Parameters	Description
NTP Server	Enable/Disable	To enable or disable NTP server of time
NTF Server	Linable/ Disable	server.
NTP UTC Offset	0.00H	Set time offset between NTP and UTC.

Press 'Save' button to save the current setting when you change setting.

3.5.3. PTP Settings (Optional)

Press 'PTP' on the left navigation bar to show PTP setting screen. The PTP setting screen will be shown as:

KYLAND Kylar	nd Techno	ology Co., Ltd.		Welcome!!! [Logout] 中文
🗂 Status	Config	juration 🄄 System 🔳 Management		
Configuration		CLOCK NTP	PTP X	
SYNC	No	Name	Parameter	Range
CLOCK	1	PTP Mode	MASTER ~	
РТР	2	Delay Measurement Mode	P2P ~	
OUTPUT	3	Sync Interval	STOP ~	
NETWORK	4	Delay Measurement Interval	STOP ~	
	5	Domain1	0 ~	
	6	Domain2	0 ~	
	7	Priority1	0	0,255
	8	Priority2	0	0,255
	9	PTP Media	802.3 ~	
	10	Tx Compensation	0	-9999999999,999999999
	• 11	Rx Compensation	0	-999999999,99999999
	12	vLan Enable	NO ~	
	13	vLan Priority	7	0,7
	14	vLan CFI	0 ~	
	15	vLan TagID	0	0,4095
	16	Master Coordination	NO V	
			Save	

[Figure 3-10] PTP Setting Screen

|--|

Items	Parameters	Description
PTP Mode	Master/Slave /Boundary	Set PTP working mode.
Delay Measurement	EDE / DDD / Disable	Set clock delay measurement mode or
Mode	EZE / PZP / DISADIE	disable this function.
		Set the PTP sync message rate of PTP master
Supelatorual	8~1 / Stop	clock. Setting value is n, actual interval is 2 ⁿ
Sync Interval	-8 47 Stop	seconds. Valid range is from -8 to 4 and Stop.
		Default value is Stop.
Dolay Moasuromont		Set delay measurement rate. Setting value is
	-8~4 / Stop	n, actual interval is 2 ⁿ seconds. Valid range is
Interval		from -8 to 4 and Stop. Default value is Stop.
Domain1/2	0~2	Set the working domain name for PTP
Domain1/2	0 3	message.
Priority1/2	0~255	Set working priority for PTP message.
DTD Modia	802 2 / IDv4	Set the transmission protocol for
	802.5 / 1994	PTP.IEEE802.3 and Ipv4 are supported.
Rx Compensation	Ons	Set the time delay for receiving PTP message.
Tx Compensation	Ons	Set the time delay for sending PTP message.
vLan Enable	Yes / No	Set whether to send vLan information.



Items	Parameters	Description
vLan Priority	0~7	Set vLan priority.
VLan CFI	0	Set vLan CFI information.
vLan TagID	0~4095	Set vLan ID information.
Master Coordination	YES/NO	Set master coordination function with BMC.

Press 'Save' button to save the current setting when you change setting.

3.5.4. Output Settings

Press 'OUTPUT' on the left navigation bar to show output setting screen. The default output setting screen will be shown as:

KYLAND Kylar	Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文								
🔳 Status		Configu	uration 🍲 System 🗈 Management						
Configuration	•	C SYNC OUTPUT							
SYNC	C	Channel	Group: 01 V						
CLOCK				-					
NTP		NO	Name	Parameter	Range				
PTP		1	Output Signal	IRIG-B1 V					
OUTPUT		2	Second Compensation	0	-999999999,999999999				
HEIWORK		3	PPS Compensation	0	-25000000,25000000				
		4	IRIG-B Mode	Odd ~					
		5	IRIG-B Time Format	UTC ~					
		6	IRIG-B Polarity	+ ~					
		7	SO-PPS	IRIG-B0 ~					
		8	SO-TxD	TOD ~					
		9	TOD Second Compensation	0	-999999999,99999999				
	1	10	TOD PPS Compensation	0	-25000000,25000000				
		11	TOD Time Format	Local					
		12	TOD Message Format	DL/T1100 ~					
		13	TOD Interface BaudRate	9600 ~					
				Save					

Figure 8 – Output Setting Screen

Press 'Save' button to save the current setting when you change setting. Press 'Channel Group' to select different output channel.

Channel Group has the following options: 01/02/03/04/05.

If select O1, the output setting screen will be shown as:

KYLAND Kylar	KYLAND Kyland Technology Co., Ltd. Wekome!!! [Logout] 中文							
Status		Configu	ration 🄄 System 🔳 Management					
Configuration	٩	SYNC	OUTPUT		Ð			
SYNC		Channel G	Group: 01 V					
CLOCK								
NTP		No	Name	Parameter	Range			
PTP		1	Output Signal	IRIG-B1 V				
NETWORK		2	Second Compensation	0	-9999999999,999999999			
nerrorat		3	PPS Compensation	0	-250000000,250000000			
		4	IRIG-B Mode	Odd ~				
		5	IRIG-B Time Format	чтс ∽				
		6	IRIG-B Polarity	+ ~				
		7	SO-PPS	IRIG-B0 V				
		8	SO-TxD	TOD				
		9	TOD Second Compensation	0	-9999999999,999999999			
	1	10	TOD PPS Compensation	0	-250000000,250000000			
		11	TOD Time Format	Local				
		12	TOD Message Format	DL/T1100 V				
		13	TOD Interface BaudRate	9600 ~				
				Save				

[Figure 3-11] Output Setting Screen (O1)

Table 9 – Output Setting (O1)

Items	Parameters	Description			
Output Signal	PPS,IRIG-B,PPM,PPH	Set the output signal type for O2/O3/O4.			
Second Compensation	Os	Set second compensation offset.			
PPS Compensation	Ons	Set PPS compensation offset.			
IDIC D Time Format		Set output time format which can be set to			
IRIG-B TIME Format	UTC / TAT / LOCAL	UTC/TAI/Local time.			
IRIG-B Mode	Even /Odd	Set IRIG-B check code: even, odd check.			
IRIG-B Polarity	+/-	Set IRIG-B output signal polarity.			
SO-PPS	PPS,IRIG-B,PPM,PPH	Set the signal type for serial port PPS signal.			
SO-TxD	TOD	Set the signal type for serial port TxD signal.			
TOD Massage Format	DLT1100/CM-	Set the coding format for serial message.			
TOD Message Format	TOD/CMBB				
TOD Interface RoudPote	200~115200	Set the working baud rate for serial port,			
TOD Interface Baudkate	300 113200	ranging from 300 to 115200.			
TOD Second Compensation	Os	Set second compensation offset.			
TOD PPS Compensation	Ons	Set PPS compensation offset.			
TOD Time Format		Set output time format which can be set to			
TOD TIME Format	UTC / TAT / LOCAL	UTC/TAI/Local time.			

If select O2/O3/O4, the output setting screen will be shown as:

KYLAND Kylan	KツLAND Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文									
🗂 Status	🔲 Configu	Configuration 🕈 System 🔳 Management								
Configuration	SYNC	CLOCK INTP		X						
SYNC CLOCK	Channel (Group: 02								
NTP	No	Name	Parameter	Range						
PTP	1	Output Signal	IRIG-B2 V							
OUTPUT	2	Second Compensation	0	-999999999,99999999						
NETWORK	3	PPS Compensation	0	-25000000,25000000						
	4	IRIG-B Mode	Odd ~							
	5	IRIG-B Time Format	итс ~							
	6	IRIG-B Polarity	+ ~							
			Save							

[Figure 3-12] Output Setting Screen (01/02/03)

|--|

Items	Parameters	Description			
Output Signal	PPS,IRIG-B,PPM,PPH	Set the output signal type for 01~05.			
Second Compensation	Os	Set second compensation offset.			
PPS Compensation	Ons	Set PPS compensation offset.			
IRIC B Time Format		Set output time format which can be set to			
	UTC / TAT / LOCAT	UTC/TAI/Local time.			
IRIG-B Mode	Even /Odd	Set IRIG-B check code: even, odd check.			
IRIG-B Polarity	+/-	Set IRIG-B output signal polarity.			

If select O5, the output setting screen will be shown as:

KYLAND Kyla	אין און אין אין אין							
🗂 Status	🗐 Config	uration 🗟 System 🔳 Management						
Configuration	SYNC	CLOCK CLOCK NTP	PTP OUTPUT	X				
SYNC CLOCK	Channel	Group: 05 🗸						
NTP	No	Name	Parameter	Range				
PTP	1	IRIG-B Second Compensation	0	-999999999,99999999				
	2	IRIG-B PPS Compensation	0	-25000000,25000000				
NETWORK	3	IRIG-B Mode	Odd ~					
	4	IRIG-B Time Format						
	5	IRIG-B Polarity	+ ~					
	6	IRIG-B Peak-to-Peak Value	3.0V V					
	7	IRIG-B Modulation Ratio Value	6.0:1 ~					
	1		Save					

[Figure 3-13] Output Setting Screen (O5)

Table 11 – Output Setting (O5)

Items	Parameters	Description
IRIG-B Second Compensation	Os	Set second compensation offset.

PTC2000 Time Convertor

Items	Parameters	Description			
IRIG-B PPS Compensation	Ons	Set PPS compensation offset.			
IDIC D Time Format		Set output time format which can be set to			
	UTC / TAT / LOCAT	UTC/TAI/Local time.			
IRIG-B Mode	Even /Odd	Set IRIG-B check code: even, odd check.			
IRIG-B Polarity	+/-	Set IRIG-B output signal polarity.			
		Set the peak-to-peak value for IRIG-B			
IRIC R Dook to Dook	2 01/~12 01/	modulated, ranging from 3.0V to 12.0V,			
IRIG-D PEak-LO-PEak	3.00 12.00	adjusting step length is 0.5V, default value is			
		12.0V.			
		Set the modulation ratio for IRIG-B			
IDIC D Madulation Datio	2 0.1~6 0.1	modulated, ranging from 3.0:1~6.0:1,			
	5.0.1 0.0.1	adjusting step length is 0.5:1; default value is			
		3.0:1.			

3.5.5. Network Settings

Press 'NETWORK' on the left navigation bar to show network setting screen. The network setting screen will be shown as:

KYLAND Kylan	<mark>メッレムトロ</mark> Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文								
🗈 Status	🔲 Configu	uration 🄄 System	🚨 Manage	ment					
Configuration	SYNC	СГОСК	× NTP	X PTP	× OUTPUT	NETWORK	×		
SYNC	Network	Channel: ETH0	\sim						
CLOCK									
NTP	No	Name		Parameter		Range			
PTP	1	IP Address		192.168.0.111		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	00X		
OUTPUT	2	IP Mask Address		255.255.255.0		2000.2000.3000.3	00X		
	3	Interface Mode		Auto 🗸					
				Save					

[Figure 3-14] Network Setting Screen

Press 'Network Group' to select different network port including ETH0/1/2/3

Table 12 – Network Setting

Items	Parameters	Description		
	ETH0:192.168.0.111	Set ETH0/1 IP address.		
IP Address	ETH1:192.168.1.111			
ID Maale Address	ETH0:255.255.255.0	Sat ET40/1 Subnat mask address		
IP Mask Address	ETH1:255.255.255.0	Set ETHO/I Subhet mask address.		
Interface Made	Auto/100M-FX FDX/100M-FX HDX	Cat FTUO/1 interface mode		
Interface Mode	/1000M-FX FDX/1000M-FX HDX	Set ETHO/1 Interface mode.		

Press 'Save' button to save the current setting when you change setting.

3.6. System

The WEB management system supports to manage Gateway, Route information and to backup and restore configuration file, in the same time it also supports firmware management of PTC2000 time convertor by WEB. Normally, if PTC2000 time convertor has SNMP features, the SNMP management node will be shown in the left navigation bar.

Press 'System' to go to the system screen on the top of navigation bar. The screen will be shown as:

KYLAND Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文										
🔳 Status	🔲 Configu	iration 🎓 System	🚨 Manag	ement						
System	Defau	ult Gateway								2
Default Gateway Static Route	Default	: Gateway:								
Configuration	Gatew	Gateway						Operation		
Firmware							Ad	d		
	Routing	g Table:								
	ID	Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface	Operation
	1	192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth1	Del
	2	192.168.0.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0	Del
	3	127.0.0.0	0.0.0.0	255.0.0.0	U	0	0	0	lo	Del
	4	0.0.0.0	192.168.1.1	0.0.0.0	UG	0	0	0	eth1	Del
	5	0.0.0.0	192.168.0.1	0.0.0.0	UG	0	0	0	eth0	Del

[Figure 3-15] System Screen

3.6.1. Gateway

Press 'Default Gateway' on the left navigation bar to manage Gateway information. The gateway screen will be shown as:

KツLAND Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文										
🔳 Status	🔲 Config	uration 🎓 System	n 🚨 Manag	ement						
System	Defa	ult Gateway								3
Default Gateway Static Route	Defaul	t Gateway:								
Configuration	Gatev	vay					Ope	ration		
Firmware							Ad	ld		
	Routin	g Table:	Catavara	Comment	flage	Mahria	D =6	1100	These	Quanting
	ID	Destination	Gateway	Geninask	Flags	Metric	Rei	ose	Trace	Operation
	1	192.168.1.0	0.0.0.0	255.255.255.0	U	U	0	0	etni	Del
	2	192.168.0.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0	Del
	3	127.0.0.0	0.0.0.0	255.0.0.0	U	0	0	0	lo	Del
	4	0.0.0.0	192.168.1.1	0.0.0.0	UG	0	0	0	eth1	Del
	4 5	0.0.0.0	192.168.0.1	0.0.0.0	UG	0	0	0	eth0	Del

[Figure 3-16] System Screen

The current routing table will be listed on the bottom of screen.

Press 'Add' to add a new gateway for PTC2000 time convertor.

Press 'Del' to delete the selected route information.

3.6.2. Route

Press 'Route' on the left navigation bar to manage Route information. The route screen will be shown as:

KYLAND Kylan	KYLAND Kyland Technology Co., Ltd. Welcome!!! [Logout] 中文											
🗂 Status	🔲 Configu	uration 🔷 System	n 🔳 Manag	ement								
System	💽 🖉 Defa	ult Gateway Stati	c Route									
Default Gateway Static Route	Static I	Route:										
Configuration	Interf	ace Network			Netmask		Gatewa	1				Operation
Firmware	eth0	V NET V					YES 🗸					Add
	Routin	g Table:										
	ID	Destination	Gateway	Genma	sk	Flags	Metric	Ref	Use	Iface	Opera	ation
	1	192.168.1.0	0.0.0.0	255.255	<u>.255.0</u>	U	0	0	0	eth1	Del	
	2	192.168.0.0	0.0.0.0	255.255	<u>i.255.0</u>	U	0	0	0	eth0	Del	
	3	127.0.0.0	0.0.0.0	255.0.0	.0	U	0	0	0	lo	Del	
	4	0.0.0.0	192.168.1.1	0.0.0.0		UG	0	0	0	eth1	Del	
	. 5	0.0.0.0	192.168.0.1	0.0.0.0		UG	0	0	0	eth0	Del	

[Figure 3-17] Route Screen

The current routing table will be listed on the bottom of screen.

Press 'Add' to add a static route for PTC2000 time convertor.

Press 'Del' to delete the selected route information.

3.6.3. Configuration

Press 'Configuration' on the left navigation bar to backup and restore configuration file. The configuration screen will be shown as:

KYLAND Kyland Technology Co., Ltd.							
Status	Configuration 🕸 System 🗈 Management						
System	Configuration						
Default Gateway Static Route	Configuration:						
Configuration	File	Operation	Operation				
Firmware SNMP	浏览	Restore	Backup				

[Figure 3-18] Configuration Screen

Press 'Backup' and system will pop-up a tip window, let user to select a directory to save configuration file. The name of configuration file is named by MAC address.

Press 'Restore' to restore a configuration by WEB. Before do it, please select a file.

After press 'Restore', the system will active your selected configuration file.

3.6.4. Firmware

Press 'Firmware' on the left navigation bar to upgrade firmware. The firmware screen will be shown as:

KYLAND Kylan	d Technology Co., Ltd.	Welcome!!! [Logout] 中文
🗂 Status	Configuration 🕸 System	
System	Configuration Firmware	D
Default Gateway Static Route	Firmware:	
Configuration	File Operat	ion
Firmware SNMP	》 浏览… Dowr	load

[Figure 3-19] Firmware Screen

Press 'Download' to update the new firmware of PTC2000 time convertor. Before do it, please select upgrade file. After finish this action, you should reboot device and make the new firmware active. There are 2 types to reboot device. One is turn off power and then turn on; another is controlled by WEB management system.

1 The firmware should be published by Official.

3.6.5. SNMP (Optional)

Press 'SNMP' on the left navigation bar to manage SNMP feature. The SNMP screen will be shown as:

KYLAND Kylan	d Technolog	y Co., Ltd.					Welcome!!! [Logo	out] 中文
🔳 Status	Configuratio	n 🎓 System	🚨 Management					
System	Default Gat	teway SNMP	×					
Default Gateway Static Route	Agent Port:	161						
Configuration Firmware	V1/V2C	+ Add	+ Del					
	No	No Community		Ad	cess			
	1	public	\checkmark	R	0	\sim		
	V3	+ Add	+Del					
	No Us	er Access	Authentication	Auth Password	Priva	acy Pri	vacy Password	
				Save				

[Figure 3-20] SNMP Screen

SNMP management supports to modify agent port and to add or delete V1/V2C and V3 access parameters. The default agent port of SNMP is 161. The default access parameter of V1/V2C named 'public', it only has read-only permissions. V3 does not have default value.

Any modifications about SNMP should reboot module to activate it.

3.7. Management

The WEB management system supports to change user password and reboot device by WEB.

Press 'Management' to go to the management screen on the top of navigation bar. The screen will be shown as:

KYLAND Kylar	nd Te	echnology Co	., Ltd.			Welcome!!! [Logout] 中文
🔳 Status		Configuration	🏠 System	🔳 Management		
Management Password Reboot		Password				
					Change Password	
		Old password				
		New password				
		Confirm password				
					Save	

[Figure 3-21] Management Screen

3.7.1. Change Password

Press 'Change Password' on the left navigation bar to change password. The change password screen will be shown as::

KYLAND Kylai	nd Te	echnology Co	o., Ltd.			Welcome!!! [Logout] 中文
🔳 Status		Configuration	System	🚨 Management		
Management		Password				
Password Reboot					Change Password	
		Old password				
		New password				
		Confirm password				
					Save	

[Figure 3-22] Change Password Screen

Please 'Save' to confirm the new password.

3.7.2. Reboot

Press 'Reboot' on the left navigation bar to reboot device. The reboot screen will be shown as:



KYLAND Kylar	nd Technology (Co., Ltd.		Welcome!!! [Logout] 中文
🗂 Status	Configuration	🏠 System	🚨 Management	
Management	Password	Reboot	×	2
Password				
Reboot				Reboot



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