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Preface

Version Description

The Manual Version: V1.0

Copyright Statement

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Abstract

This manual describes installation and use of the DXC devices. Please be sure to read all the information carefully and follow the manual instruction to install the product before you first use our device. It may avoid any damages occurred by mis-operation. Thanks for choosing our products.

Environmental Protection

This product meets the design requirements on environmental protection. Any use, storage and disposal of the product shall be conducted under relevant national laws and regulations.

You are most welcome to put forward advices and suggestions for our work and it well be viewed as the greatest support for our company.

Chapter 1 Introduction

1.1 Overview

DXC1032/16 is a high-capacity of E1 timeslot digital cross-connection devices. 64Kb/s timeslot cross capacity is 1024×1024(512×512). It achieves any of 64kb / s timeslot programmable non-blocking cross-connection. It maximum can provide 32/16 E1 interfaces. The device can be widely used in China Telecom, China Mobile, China Unicom, power, military communications; It support Web or telnet-based remote network management and local Console port management, very easy to manage and maintain.

- 1.2 Product Features
 - ♦ High-density single board design, provide a standard 1U,
 19 inch physical structure design, low power design, increase system reliability;
 - ♦ Flexible configuration of system clock, local clock, or follow any E1 line clock, easy to synchronize the entire network;
 - Provide E1 interface to analog loopback, remote analog loop back function, It is easy for debug, fault location;
 - ♦ Owns the functions of two-way connection between any timeslot, radio timeslot connection and a one-way timeslot connectivity;
 - ♦ Each E1 interface owns CRC-4 checksum function(settable);
 - ♦ Provide E1 LOS, LOF, AIS and CRC-4, CAS alarm functions;
 - Provide E1 interface remote alarm and CAS remote alarm functions;
 - Support Web-based or telnet remote network management and local Console port management;

- Two DXC equipment connected by E1, Through local device' s E1 time slots 0 to do remote management of DXC equipment;
- Provide TFTP online upgrade system firmware and software;
- ♦ AC220V, DC-48V dual power supply;

Chapter 2 Device Description

2.1 Front Panel



Figure 2-1 Front Panel

	Table 2-1	Front Pane	el Description
--	-----------	------------	----------------

Indicator	Description		
PWR	Power indicator		
WRK	System operating LED, Flash to operate		
ERR	System Error LED, Light to system failure.		
LOS1~32	E1 interface LED, Light on means related port LOS. Light off means NO LOS. Flash indicate PATT test. DXC1016 disable the 17~32 indicator.		
LOF1~32	E1 port LOF DXC1016 disable the 17~32 indicator.		
SPD	SNMP port speed rate LED, 100M is light on, 10M light off.		
DUP	SNMP interface duplex indicator, Full duplex is light on, half-dup is lighting off		
ACT	SNMP active LED, light when connected, Flash when transmitting data.		

This version disables the DIP switches and reset functions.



220VAC or 48VDC optional

E1's physical DB37 signal order please see chapter 4. DXC1016 disables 17~ 32 E1

Rear Panel provides a ground column, highly recommend customer connect the column to room grounded device to ensure device operating.

2.2 Rear Panel

Chapter 3 Technical Parameters

Table 3-1	Technical	Parameters
-----------	-----------	------------

Operating Environment		
Input voltage	AC220V±10% or DC36~72V	
Power consumption	<15W	
Temperature	-10℃~50℃	
Humidity	95%, Non-condensing.	
Dimension	19 inch 1U rack (440 mm×193 mm×44mm)	
Console port		
Speed rate	115200bps	
Model	8 bit data, no parity, 1 bit stop bit, no hardware flow control	
Port	RJ45	
SNMP inte	rface	
Speed	10/100M self-adaptive	
Duplex	Full/Half Duplex self-adaptive	
Standard	Support IEEE802.3、IPV4	
Port	RJ-45	
E1 Interfac	ce	
Interface E1	HDB3	
Nominal bit rate and tolerance	2048Kbps±50ppm	
Interface impedance	75Ω unbalance (or 120Ω balanced)	
Jitter	ITU G.742, G.823	
Re-frame	ITU G.704, CAS(PCM30)/CCS(PCM31)	
structure		
Physical Port	DB37	
Standard	ITU-T G.703 G.704 G.823	
Clock	Local clock, E1 line clock	

Chapter 4 Installation

- 4.1 Installation and Wiring
- 4.1.1 Device Installation

Please install the device on standard rack system:

First: Fix the L-bracket (box ears) with screws on both sides of the device.

Second: Fix the device on the Rack system through the L-bracket with screws.

4.1.2 E1 cable Sequence definition

E1 interface uses DB37 connectors, A DB37 used to provide 8 E1 interfaces.

DB37 order:



Num	Pin Functions	Num	Pin Functions		
21	1 st E1Channel receiver +	23	2 nd E1 Channel receiver +		
3	1 st E1Channel receiver -	5	2 nd E1Channel receiver -		
22	1 st E1Channel sender -	24	2 nd E1Channel sender -		
4	1 st E1Channel sender +	6	2 nd E1Channel sender +		
25	3 rd E1Channel receiver +	27	4 th E1Channel receiver +		
7	3 rd E1Channel receiver -	9	4 th E1Channel receiver -		
26	3 rd E1Channel sender -	28	4 th E1Channel sender -		
8	3 rd E1Channel sender +	10	4 th E1Channel sender +		
29	5 th E1Channel receiver +	31	6 th E1Channel receiver +		
11	5 th E1Channel receiver -	13	6 th E1Channel receiver -		
30	5 th E1Channel sender -	32	6 th E1Channel sender -		
12	5 th E1Channel sender +	14	6 th E1Channel sender +		
33	7 th E1Channel receiver +	35	8 th E1Channel receiver +		
15	7 th E1Channel receiver -	17	8 th E1Channel receiver -		
34	7 th E1Channel sender -	36	8 th E1Channel sender -		
16	7 th E1Channel sender +	18	8 th E1Channel sender +		

Table 4-1 E1 cable sequence

4.1.3 Ground Power cable and device



Figure 4-2 Ground Indication

Please Check the device ground:

First: Check DXC Device ground to Rack system

Second: Check the Rack ground to environment.

4.1.4 First Power up

Before the device first Power up, please check:

- ♦ Check device's model of power supply is correct.
- ♦ DC/AC Input voltage whether is tolerated.
- Check device's bar code number, writing clear, no defect;
- ♦ mechanical parts are fixed properly;

Device adopts AC 220V or DC 48V power supply. When it power up, the front panel's LEDs are on, it indicate device is powered up successfully. If smell something is burned or device is over heated, please immediately turn off the power.

- 4.2 Device First Setting
- 4.2.1 DIP Switches Setting

DXC device uses DIP Switches to select E1 line clock. Default setting to Local Clock.

In 8 DIP switches, Bit1-Bit6 to select E1 port, Bit7 to select line clock or local clock.

4.2.2 Cross Setting.

Specific setting please see Chapter 5 and 6.

Chapter 5 Command-Line Control Specification

5.1 Command-Line Overview

DXC series device supports Console or Telnet to manage device with Command-Line (CLI).

System Default username: admin, password: admin

1. Console: Connect Computers serial port to Console port, operating" HyperTerminal", Serial mode: 115200-8-N-1.

2. Telnet: Connect computer Ethernet to DXC Ethernet port. Telnet Device IP (default: 192.168.0.168).

2. Telnet

Input "?" or Press "Tab" to get help when you typing CLI. For example, user input "sh" + "?"/Tab, all help data of "sh" command will be shown.

There are different system CLI models:

- ♦ Login Model
- ♦ Global Model
- ♦ Config Model

Model	Figure	Command	Login	Logout
Login	System Login	UserName:	Login after	Close
Model		Password:	Telnet or	Connectio
			Serial	n
			connection	
Global	Check device's	DXC#	Input right	Exit or quit
Model	operating status		username	to Login
			and	Model
			password	
			under Login	
			model	
Config	Config Device	DXC(config)#	Input config	Exit or quit
Model	relative		under Global	to Global
	parameters,		Model	Model

Table 5-1 CLI model and functions

system rebo
save, dele
config

5.2 CLI specification

5.2.1 help

[Command] help [Parameter] None [Command model] Global model [Default] None [Used for] Display help information [Example] DXC#help help list end exit quit config show running-config show startup-config show version reboot show e1-status show dxc <1-32> DXC#5.2.2 show version [Command] show version [Parameter] None [Command model]

DXC Device User Manual Global model [Default] None [Used for] Display version information [Example] DXC#show version SoftWare Version : V1.07 FPGA Version : V1.7 Release Date : 21:34:04 . Nov 2 2010 5.2.3 show e1 status [Command] show e1 status [Parameter] None [Command model] Global model [Default] None [Used for] Display all E1 status [Example] DXC#show e1-status E1 LOS/LOF/AIS/CRC4/CAS LoopTest Admin LpDet Loop RmtALM/CAS CRC4 CAS PATT PTOK 01 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---02 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---03 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---04 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---05 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---06 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---07 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---08 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---09 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---10 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---11 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---

12 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---

```
13 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---
14 LOS/---/---/--- OFF UP/UP OFF OFF ON Fail OFF ---
15 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF ---
16 LOS/---/--- OFF UP/UP OFF OFF ON Fail OFF --
--More--
5.2.4 show dxc
     [Command]
       show dxc <1-32>
     [Parameter]
       <1-32>: E1 number
     [Command model]
       Global model
     [Default]
       None
     [Used for]
       Display E1 cross config information.
     [Example]
       DXC#show dxc 3
1#E1 Source (Format : TS<--SourceE1:TS)
0<-----
             1<-- 2#E1:01 2<-- 2#E1:02
                                         3<-- 2#E1:03
4<-- 2#E1:04 5<-- 2#E1:05 6<-- 2#E1:06 7<-- 2#E1:07
8<-- 2#E1:08 9<-- 2#E1:09 10<-- 2#E1:10 11<-- 2#E1:11
12<-- 2#E1:12 13<-- 2#E1:13 14<-- 2#E1:14 15<-- 2#E1:15
16<-- 2#E1:16 17<-- 2#E1:17 18<-- 2#E1:18 19<-- 2#E1:19
20<-- 2#E1:20 21<-- 2#E1:21 22<-- 2#E1:22 23<-- 2#E1:23
24<-- 2#E1:24 25<-- 2#E1:25 26<-- 2#E1:26 27<-- 2#E1:27
28<-- 2#E1:28 29<-- 2#E1:29 30<-- 2#E1:30 31<-- 2#E1:31
5.2.5 show running-config
     [Command]
       show running-config
     [Parameter]
       None
     [Command Model]
       Global Model
     [Default]
       None
     [Used for]
```

Display device running config information [Example] DXC#show running-config System running configuration !Running Time : 0 hours,17 minutes,32 seconds **!Device Type DXC-32** ip-address 192.168.0.168 255.255.0.0 gateway 192.168.0.1 hostname DXC password admin snmp community 1 public ro snmp community 2 private rw clock source local patt-mode fixed loop-detect action auto-recover e1 1-32 loop-detect off e1 1-32 admin up e1 1-32 loop-test off e1 1-32 patt on e1 1-32 crc-4 on e1 1-32 cas on 5.2.6 show startup-config [Command] show startup-config [Parameter] None [Command Model] Global Model [Default]

None

[Used for]

Display information of saved config file.

[Example]

DXC#show startup-config ip-address 192.168.0.168 255.255.0.0 gateway 192.168.0.1 hostname DXC

password admin snmp community 1 public ro snmp community 2 private rw 0003:0000,000C:0000,000D:0000,000E:0000 5.2.7 config [Command] config [Parameter] None [Command Model] Global Model [Default] None [Used for] Enter config model from global model [Example] DXC#config DXC(config)# 5.2.8 reboot [Command] config [Parameter] None [Command Model] Config Model [Default] None [Used for] System reboot [Example] DXC(config)#reboot System Rebooting, Please wait... 5.2.9 write file [Command] write file [Parameter] None

[Command Model] Config Model [Default] None [Used for] Save config infor to file [Example] DXC(config)#write file Saving the configuration!Please Wait... 5.2.10 erase startup-config [Command] erase startup-config [Parameter] None [Command Model] Config Model [Default] None [Used for] Restore to factory Config [Example] DXC(config)#erase startup-config Erasing the configuration!Please Wait... 5.2.11 hostname <HOSTNAME> [Command] hostname <HOSTNAME> [Parameter] <HOSTNAME>: Host name [Command Model] Config Model [Default] Host name: DXC. [Used for] Alter Host name [Example] DXC(config)#hostname Test Test(config)#

5.2.12 password <PASSWORD> [Command] password <PASSWORD> [Parameter] < PASSWORD >: Password [Command Model] Config Model [Default] Default password: admin. [Used for] Alter login password [Example] DXC(config)# password 123 DXC (config)# 5.2.13 ip-address <A.B.C.D> <A.B.C.D> [Command] ip-address <A.B.C.D> <A.B.C.D> no ip-address [Parameter] <A.B.C.D>: IP Address <A.B.C.D>: Subnet Mask [Command Model] Config model [Default] Default IP address: 192.168.0.168, Subnet Mask: 255.255.0.0。 [Used for] Alter IP address and subnet mask. "no ip-address" to erase IP address [Example] DXC(config)# ip-address 10.18.3.25 255.255.255.0 DXC (config)# 5.2.14 gateway <A.B.C.D> [Command] gateway <A.B.C.D> [Parameter]

<A.B.C.D>: Gateway

[Command Model] Config model [Default] Default gateway address.192.168.0.1. [Used for] Alter Gateway address [Example] DXC(config)# gateway 10.18.3.1 DXC (config)# 5.2.15 snmp trap-server <1-2> <A.B.C.D> [Command] snmp trap-server <1-2> <A.B.C.D> snmp trap-server <1-2> <A.B.C.D> <1-65535> no snmp trap-server <1-2> [Parameter] <1-2>: trap server index <A.B.C.D>: trap server address <1-65535>: trap server port [Command Model] Config model [Default] None [Used for] Add Trap Host address and port, default port 162. "no snmp trap-server" command to delete receiving host. [Example] DXC(config)# snmp trap-server 1 10.18.32.15 DXC (config)# 5.2.16 snmp community <1-2> <community> (ro/rw) [Command] snmp community <1-2> <community> (ro/rw) no snmp community <1-2> [Parameter] <1-2>: community index

<community>: community String

(ro/rw): Permissions are read-only or read-write.

[Command Model]

Config model

[Default]

None

[Used for]

Increase SNMP community

"no snmp community" command to delete community.

[Example]

DXC(config)# snmp community 1 testc rw DXC (config)#

```
5.2.17 dxc <1-32>/<1-> source <1-32>/<1-31>
```

[Command]

dxc <1-32>/<1-31> source <1-32>/<1-31>

dxc <1-32>/<1-31> source <1-32>/<1-31> bidirection

[Parameter]

<1-32>/<1-31>: Destination E1/timeslot number

<1-32>/<1-31>: source E1/timeslot number bidirection

[Command Model]

Config model

[Default]

None

[Used for]

To Config timeslot cross-connection, and select any destination timeslot to cross with relative source timeslot

[Example]

DXC(config)# dxc 3/2 source 4/2 DXC (config)#

5.2.18 e1 <PORTLIST> patt (on|off)

[Command]

e1 <PORTLIST> patt (on|off)

[Parameter]

<PORTLIST>: E1 Num, enable, -symbol (on/off)

[Command Model]

Config model

[Default]

None [Used for] Config E1 PATT test on or off. [Example] DXC(config)#e1 1,3,5-12 patt on DXC (config)# 5.2.19 e1 <PORTLIST> loop (off|local|line) [Command] e1 <PORTLIST> loop (off|local|line) [Parameter] <PORTLIST>: E1 Num, enable, -symbol (off/local/line): open local loop line loop [Command Model] Config model [Default] None [Used for] Open E1 loop [Example] DXC(config)#e1 1,3,5-12 loop line DXC (config)# 5.2.20 clock source [Command] clock source local clock source e1 <1-64> [Parameter] <1-32>: E1 Num [Command Model] Config Model [Default] Local Internal Clock [Used for] Config sytem clock source, Local or selected from any E1 [Example] DXC(config)#clock source e1 3 DXC (config)

Chapter 6 Web Management

It is flexible to Config and monitor DXC device with IE Explore. Input 192.168.0.168 to login the device.

6.1 Web Login

Username: admin Password: admin. Login page like figure 6-1.

连接到 192.168.0.	168 ? 🔀
WEB	
用户名(U):	🛿 admin 💌
密码(<u>P</u>):	****
	☑记住我的密码(图)
	确定取消

Figure 6-1 Login page

6.2 System config

As shown on figure 6-2, the data can be checked is: MAC address, E1 num, software version, running time, Ethernet status.

Config-able data: IP address, subnet mask, gateway, clock source, system password, reset.

System Config DXC Config E1 Config
System Configuration
SoftWare Ver:1.07 ,HardWare Ver:1.7 ,MAC Address:A4.C2.AB.02.16.E9
E1 Number:32 ,Running Time:724 Secs ,Ethernet Status:Full/100M
IPAddress 192.168.0.168 NetMask 255.255.0.0 Gateway 192.168.0.1
Clock Source Loc V PATT Mode Fix-Code V LoopDetect Action Auto-Recover V
Modify Password:Old Pass Confirm
System Reset V
Config Refresh

Figure 6-2 System config page

Clock Source Function

Config clock source

LOC: (Default) Local master clock

(1-32) #E1: Config to extract clock from E1

LoopDetect Action Function

Set E1 Loop detection function

Auto-Recover: (Default) Close E1 Loop Detect Function.

The E1 port will not be closed when a loop is detected.

Shutdown: Open E1 loop detect function. Shutdown the

E1port when a loop is detected

PATT Mode Function

Set Pseudo-random code

Fix-code: (Default) set Pseudo-random code to fix code PseudoRandom: set random code

6.3 Time slot Cross config

System Config DXC Config E1 Config			
DXC Configuration			
Destin E1 From TS To TS			
Source E1 From TS To TS			
Bidirection			
Config Refresh			
1#E1 TS Source Others: 1# 2# 3# 4# 5# 6# 7# 8 26# 27# 28# 29# 30# 31# 32#	<u># 9# 10# 11# 12# 13#</u>	<u>14# 15# 16# 17# 18# 19# 20#</u>	<u>21# _ 22#</u> <u>23#</u> <u>24#</u> <u>25#</u>
TS Source E1:TS TS Source E1:TS	TS Source E1:TS	TS Source E1:TS	
0 8 2#E1:8	16 2#E1:16	24 2#E1:24	
1 2#E1:1 9 2#E1:9	17 2#E1:17	25 2#E1:25	
2 2#E1:2 10 2#E1:10	18 2#E1:18	26 2#E1:26	
3 2#E1:3 11 2#E1:11	19 2#E1:19	27 2#E1:27	
4 2#E1:4 12 2#E1:12	20 2#E1:20	28 2#E1:28	
5 2#E1:5 13 2#E1:13	21 2#E1:21	29 2#E1:29	
6 2#E1:6 14 2#E1:14	22 2#E1:22	30 2#E1:30	
7 2#E1:7 15 2#E1:15	23 2#E1:23	31 2#E1:31	

Figure 6-3 Timeslot Cross config page

For example: cross 1#E1 1~31 to 2#E1 1~31

Destin E1 1	From TS 1	To TS 31
Source E1 2	From TS 1	To TS 31
Bidirection		

6.4 E1 Interface

System Config DXC Config	E1 Config									
E1 Configuration										
E1 1 💌 Loop Test OFF	🖌 Admin UP 👻	PATT OFF	v C	RC-4	OFF	✓ CA	SOF	👻 Loop De	etect 🛛	OFF 💌 🗌 Apply To All E1
Config Refresh										
01#-16#E1 Status Others: 01	#-16# 17#-32#									
E1 LOS/LOF/AIS/CRC4/CAS	ALARM/CAS(Remote)	LoopTest	Admin	CRC4	CAS	PATT	рток	LoopDetect	Loop	1
1 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
2///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
3 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
4 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
5 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
6 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
7 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
8 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
9 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
10 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
11 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
12 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
13 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
14 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
15 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		
16 LOS///	/	OFF	UP/UP	OFF	OFF	OFF		OFF		

Figure 6-4 E1 Interface config

如图 6-4 所示,在此可以配置 E1 的环回检测、CRS 校验和查看 E1 的 告警情况等。

As shown on figure 6-4, it can config E1 loop detect, CRS check and

E1 alarming status.

Admin:

UP: E1 port on.

DOWN: E1 port down, none data transmitting.

Loop Test: E1 loop test

OFF: Close loop test

LocLoop: Device Local loop, FPGA internal Loop LineLoop: Loop from FPGA to E1 port

PATT: Line test, can be used with "Loop Test".

OFF: PATT off

ON: Testing

LoopDetect: Loop detect. "YES" for the port is looping.

CRC4(OFF/ON), CAS(OFF/ON),

Select "Apply To All E1" to save current config to all E1.

[Note]

Default setting the Admin of E1 is Down which means it cannot transmitting data. To enable the function, please set E1 Admin to UP

DXC1016 device only enable setting of 1-16 E1.

Chapter 7 Appendix

7.1 Common Problems and Troubleshooting

- 1. Power LED not on when Power up Possible failures:
 - (1) Power connection error
 - (2) Power Supply abnormal

Solutions:

- (1) Check the Power Line connection
- (2) Check the voltage of Power supply
- 2. E1 Port LED off

Possible failures:

- (1) E1 cable is not connected properly
- (2) Bad quality of E1 cable

Solution:

Check the E1 cable.

- 3. E1 port loss package Possible failures:
 - (1) Device Clock setting

(2) E1 Cable is not connected properly Solution:

Check the E1 cable or alter Clock setting.

7.2 Warranty Card

The Company guarantees:

1、 Warranty

(1) In free warranty period (12 months from the date of purchase), upon Company recognized normal use circumstances, the Company will responsible for replace or repair any component that was damaged under free of charge.

(2) In charged warranty(out of 12 months free warranty and beyond or less than 36 months), under recognized normal use circumstances, the Company will charge for the replacement component, but shall keep the maintenance services free.

2. The Warranty does not cover the follows, and the maintenance ices will be charged:

(1) Over 36 months from the date of purchase.

(2) User fails to provide certificate of purchase date and the product's serial number indicates the date of manufacture is more than 39 months.

(3) Including but not limited to damages caused by severe impact, extrusion, drops, liquid immersion and other abnormal conditions.

(4) The frangibility label is damaged.

(5) Unauthorized disassembling product behavior.

(6) Force majeure results in product damage, such as earthquakes, floods, lightning, etc.

3. After product been repaired, the new replacement parts will enjoy 12 months free warranty start from the date of replacement.

4. If there is any failure of the product, user may choose to

send the product back to the Company or mail the product to service agencies of the Company throughout the country.

 5_{\times} For any damage caused due to improper operations, the company does not assume any responsibility. If indeed the product itself causes damages, the company only assumes responsibilities within the product price range and does not including but not limited to all direct or indirect losses caused by data loss

DXC Ti	imeSlots Cross Device	Device Num:
	Date:	Service Num
1		
2		
3		
4		
5		

Product Maintenance Records