Appendix A Module Maintenance Window

For the water-proof purpose, each module maintenance window is installed with a seal cover. Indicators and interfaces inside are invisible unless this cover is opened.

A.1 MTRM

I. Indicators in the maintenance window

Table A-1 Indicators in the maintenance window of MTRM

Indicator	Color	Meaning	Description	Normal status
RUN	Green	Status indicator	Fast flash (4Hz): MTRM is started or software downloading is in progress Slow flash (0.5Hz): BTRM is working normally. Other: Board error	Slow flash (0.5Hz)
ALM	Red	Alarm indicator	Fast flash (4Hz): Critical alarm Slow flash (0.5Hz): Major alarm Slow flash (0.25Hz): Minor alarm Off: No alarm	Off
ACT	Green	Operation indicator	On: BTRM is working normally and the clock is locked. Slow flash (0.25Hz): Alarm on monitor link Slow flash (0. 5Hz): The clock has not been locked yet or can not be locked.	On

II. Interfaces in the maintenance window

Table A-2 Interfaces in the maintenance window

Interface	Function
10M	10MHz signal interface
COM	Serial communication interfac e for internal test
RST	Reset button
TRX_ID	An 4-digit DIP switch
PP2S	2-second signal interface
HPA_TEST	Test button used for forward local RF transmission
LOAD	Jumper used for internal test

Table A-3 TRX_ID DIP switch

DIP switch No.				MTRM No.
4	3	2	1	
This bit is invalid, and the default status is off	ON (0)	ON (0)	ON (0)	0
	ON (0)	ON (0)	OFF (1)	1
	ON (0)	OFF (1)	ON (0)	2
	ON (0)	OFF (1)	OFF (1)	3
	OFF (1)	ON (0)	ON (0)	4
	OFF (1)	ON (0)	OFF (1)	5
	OFF (1)	OFF (1)	ON (0)	6

📖   **Note:**

When the ODU3601C is cascaded to the BTS3601C, the. MTRM No. of ODU3601C of level 1 is 1, and the. MTRM No. of ODU3601C of level 2 is 2, and the rest may be deduced by analogy.

When the ODU3601C is cascaded to the cBTS3612, the. MTRM No. of ODU3601C of level 1 is 0, and the. MTRM No. of ODU3601C of level 2 is 1, and the rest may be deduced by analogy.

A.2 MPAM

No maintenance window installed.

A.3 MFEM

No indicators are installed for MFEM. The interfaces in the window are described in the following table.

Table A-4 Interfaces in the maintenance window of MFEM

Interface	Function
TX_TST	Used for coupling test of output power (degree of coupling: -30±1dB)
RXM_TST	Used for coupling test of main received signals
RXD_TST	Used for coupling test of diversity received signals

A.4 MAPM

The maintenance window of MAPM is shown in Figure A-1.
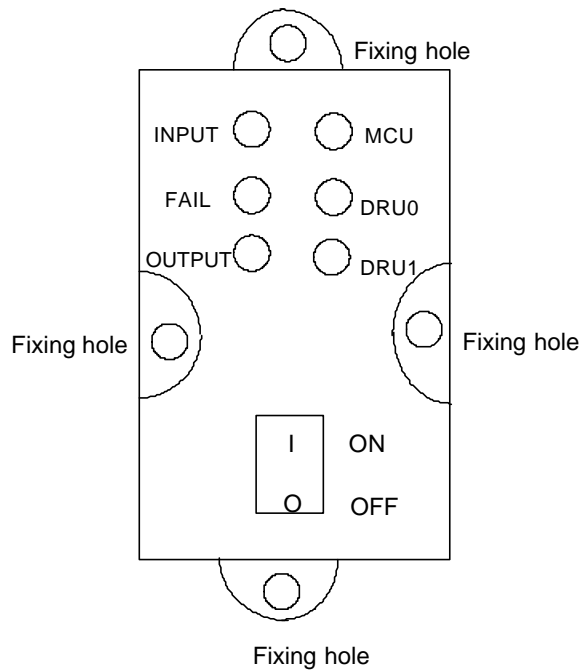
Figure A-1 Maintenance window of MAPM

The indicators in the maintenance window are described in the following table.

Table A-5 Indicators of MAPM

Indicator	Color	Meaning	Description	Normal Status
INPUT	Green	Power input	On: Normal Off: Abnormal	On
FAIL	Red	Module alarm	On: Alarm Off: Normal	Off
OUTPUT	Green	Power output	On: Normal Off: Abnormal	On
MCU	Green	These three indicators are reserved in ODU3601C.		
DRU0	Green			
DRU1	Green			