



OPTIC

AC IN

AC GND

AC - L  
AC - N  
F.G

SISO #1

SISO #2

SISO #3

SISO #4

MIMO #1  
& DC

MIMO #2  
& DC

MIMO #3  
& DC

MIMO #4  
DC



39GHz

5G

*DRU*

**FRtek**  
Fiber Radio Technologies

•  
AC IN  
•

•  
AC GND  
•

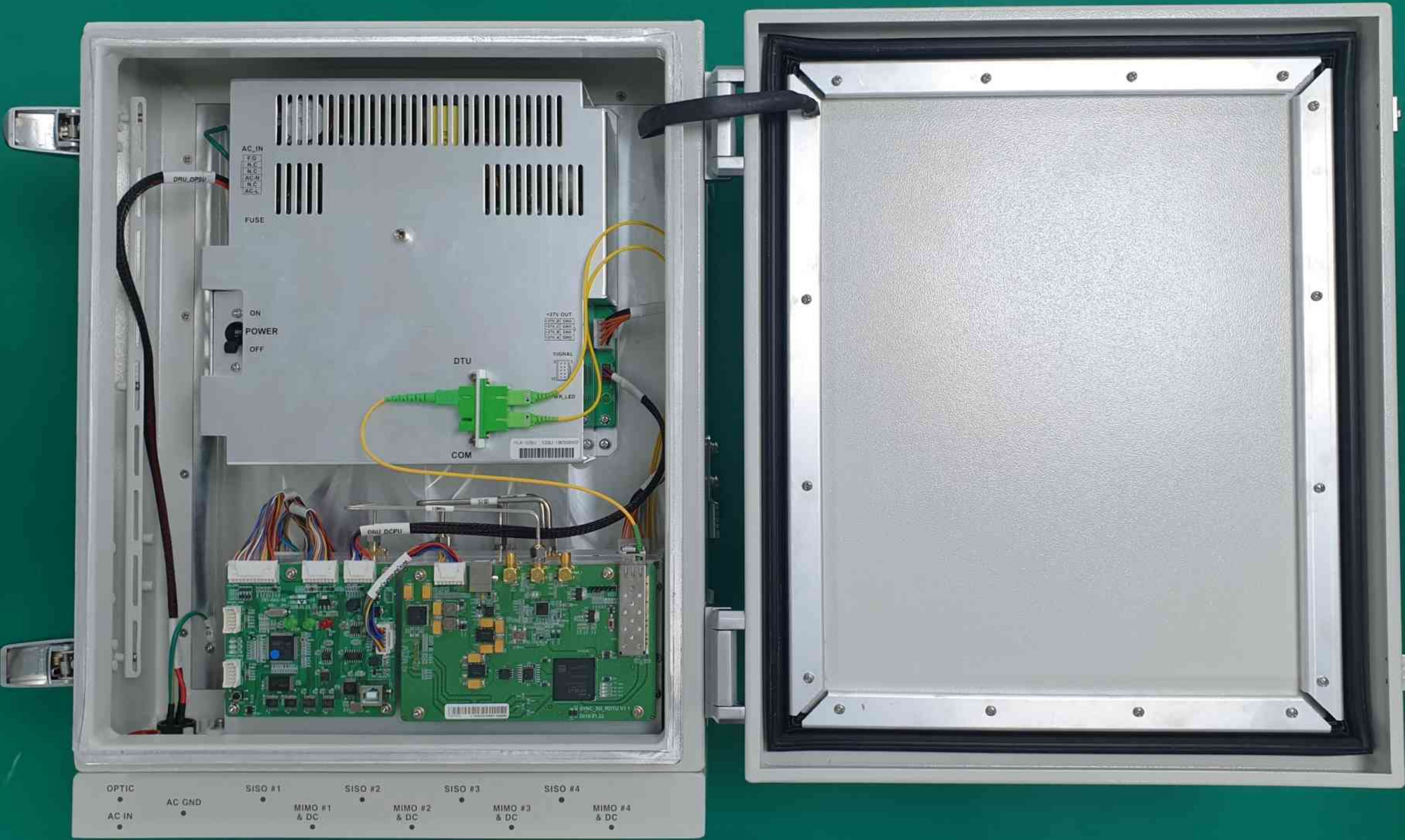
•  
MIMO #1  
& DC  
•

•  
MIMO #2  
& DC  
•

•  
MIMO #3  
& DC  
•

•  
MIMO #4  
& DC  
•





AC IN  
FG  
N.C.  
N.C.  
AC-M  
N.C.  
AC-L  
FUSE

ON  
POWER  
OFF

DTU

COM

\*37V DVT  
17V 21 GND  
17V 22 GND  
17V 23 GND  
17V 24 GND

SIGNAL

POWER\_LED

PLA-1001 100110000000

DRU DCPI

OPTIC  
AC IN  
AC GND  
SISO #1  
MIMO #1 & DC  
SISO #2  
MIMO #2 & DC  
SISO #3  
MIMO #3 & DC  
SISO #4  
MIMO #4 & DC



GND 

Product Name : 28GHz 5G DRU  
Model Name : FR-R5G17AFU  
Serial Number : FRC13-198-0003  
D A T E : 2019. 08  
Manufacturer : FRTek Co., Ltd  
**Made in Korea**











GND

LEONARDO  
BRUNO  
18 20











▲  
DEBUG & S/W

5G

*DU*

◀ GND

*39GHz*

GND ▶



PWR



RUN



ALM

MIMO



SISO & DC



**FR**Tek  
Fiber Radio Technologies









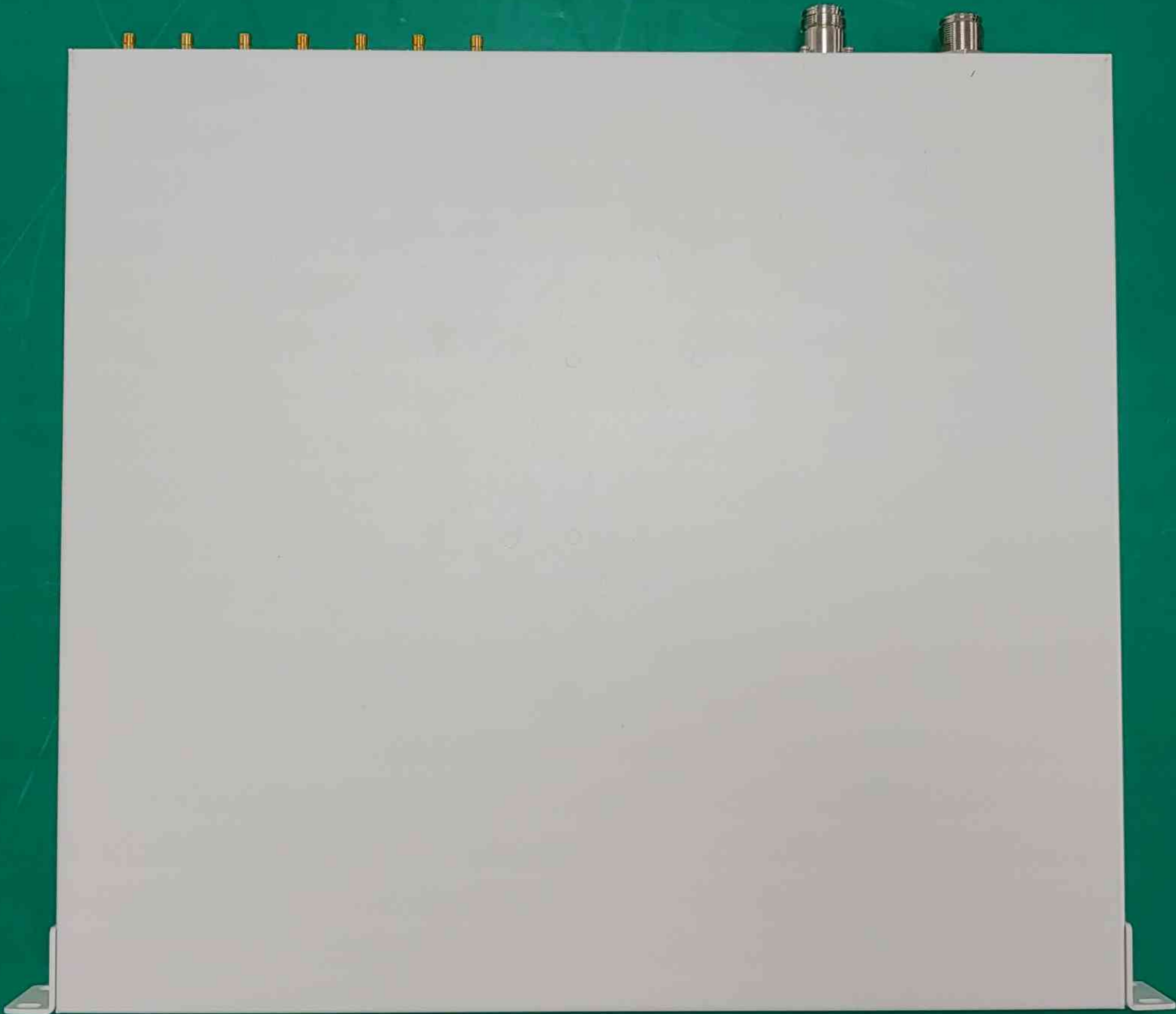












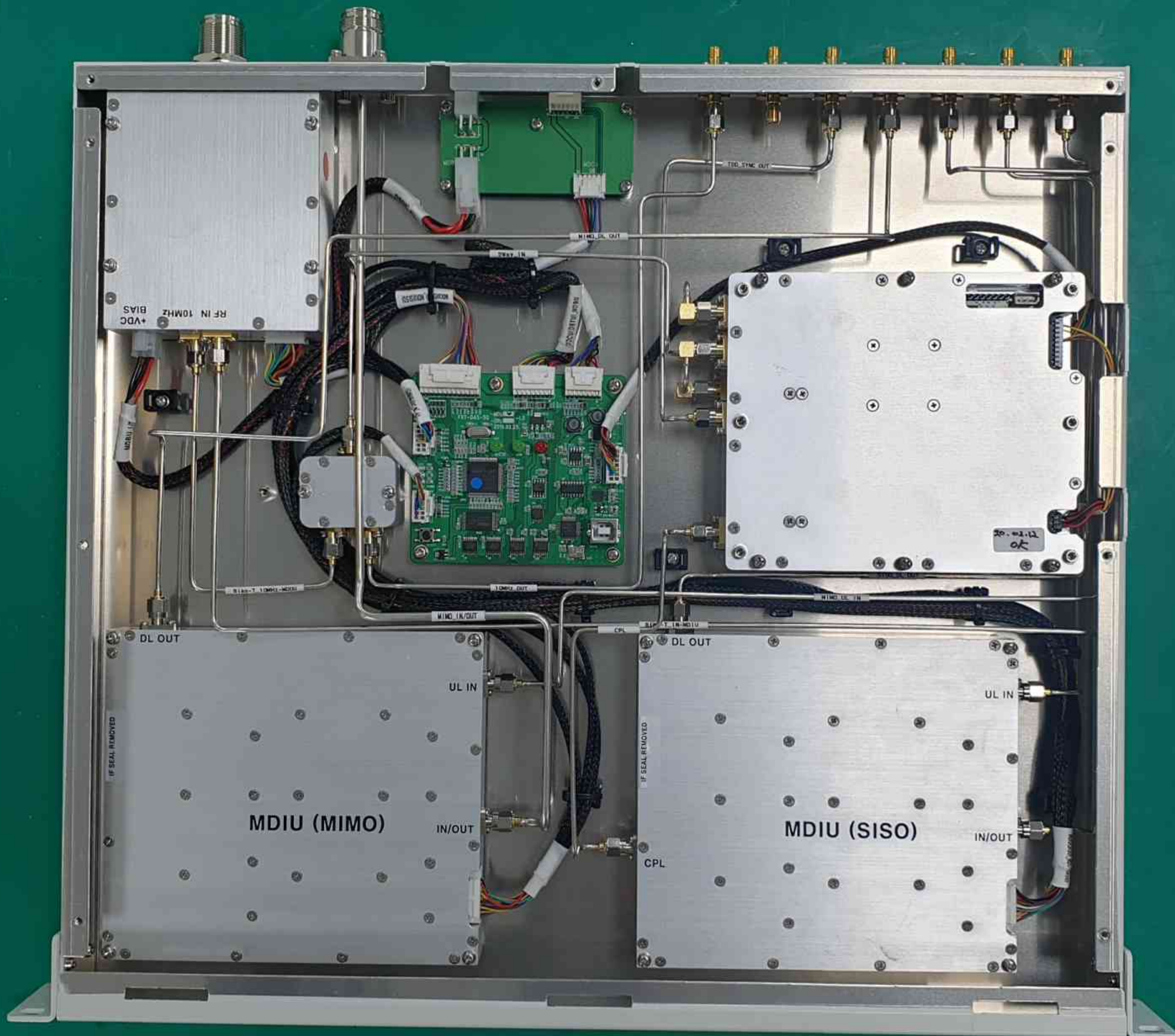


*MDU*

39GHz

**FRtek**  
Fiber Radio Technologies





RF IN 10MHz  
BIAS +VDC

DL OUT

MDIU (MIMO)

IN/OUT

DL OUT

MDIU (SISO)

IN/OUT

UL IN

CPL

UL IN

MIMO\_IN/OUT

10MHz\_OUT

MIMO\_DL\_OUT

TDR\_SYNC\_OUT

MIMO\_UL

BIAS-T 10MHz-MDIU

IF SEAL REMOVED

IF SEAL REMOVED

20.02.12  
OK







SISO  
UL IN DL OUT

MIMO  
UL IN DL OUT

TDD  
SYNC OUT

10MHz  
IN OUT

I/O

PWR

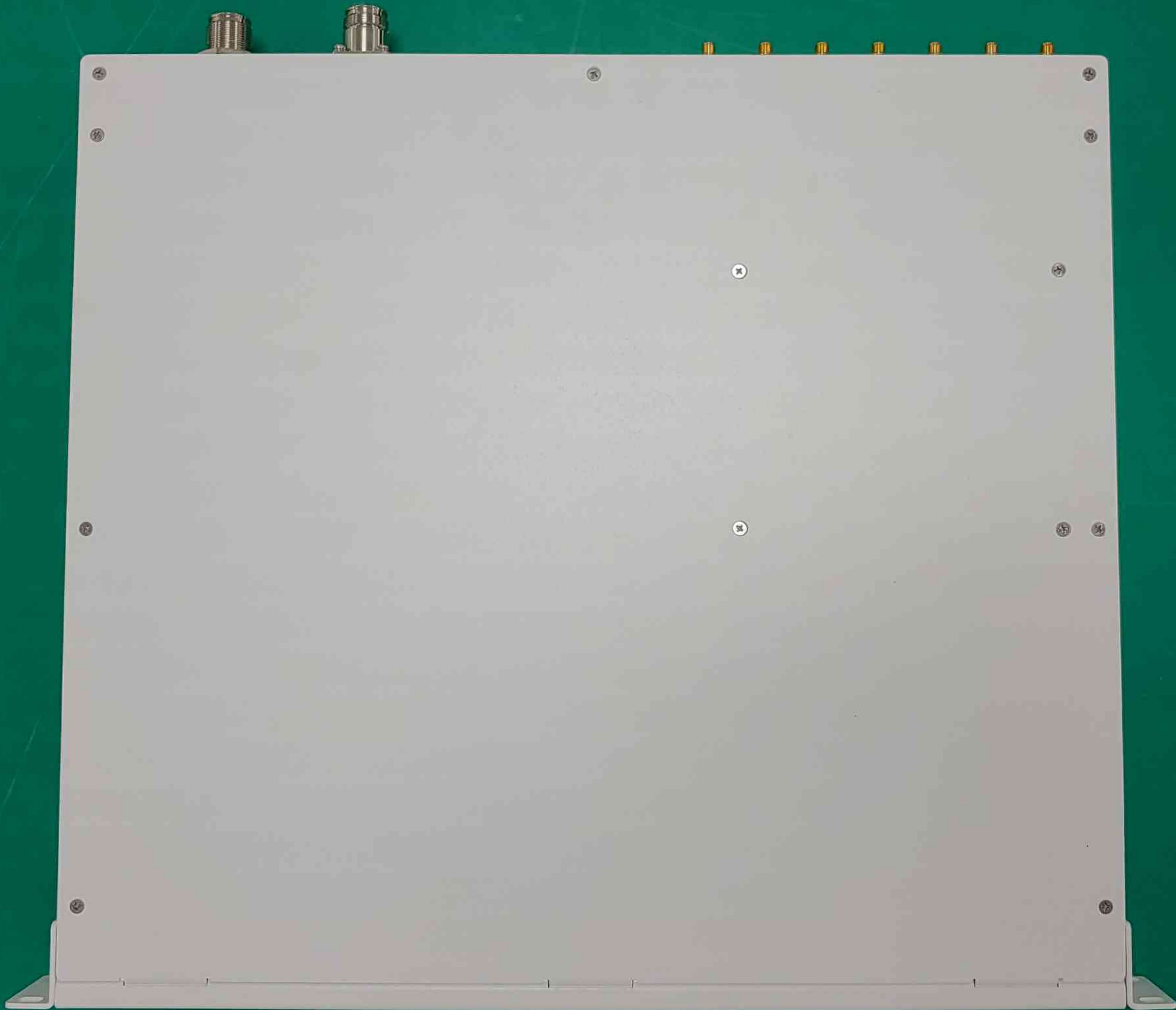
MIMO  
IN/OUT

SISO  
IN/OUT















39GHz

5G  
MHU



BR 1 BR 2 BR 3 BR 4 BR 5 BR 6 BR 7 BR 8

LD  
PD  
BR 1  
BR 2  
BR 3  
BR 4  
BR 5  
BR 6  
BR 7  
BR 8



DEBUG

MDTU

39GHz  
MCPMU

PWR  
RUN  
ALM

DEBUG



ETHERNET  
(NMS)

39GHz  
MITU



COM



MDTU



BLANK



BLANK



BLANK



BLANK



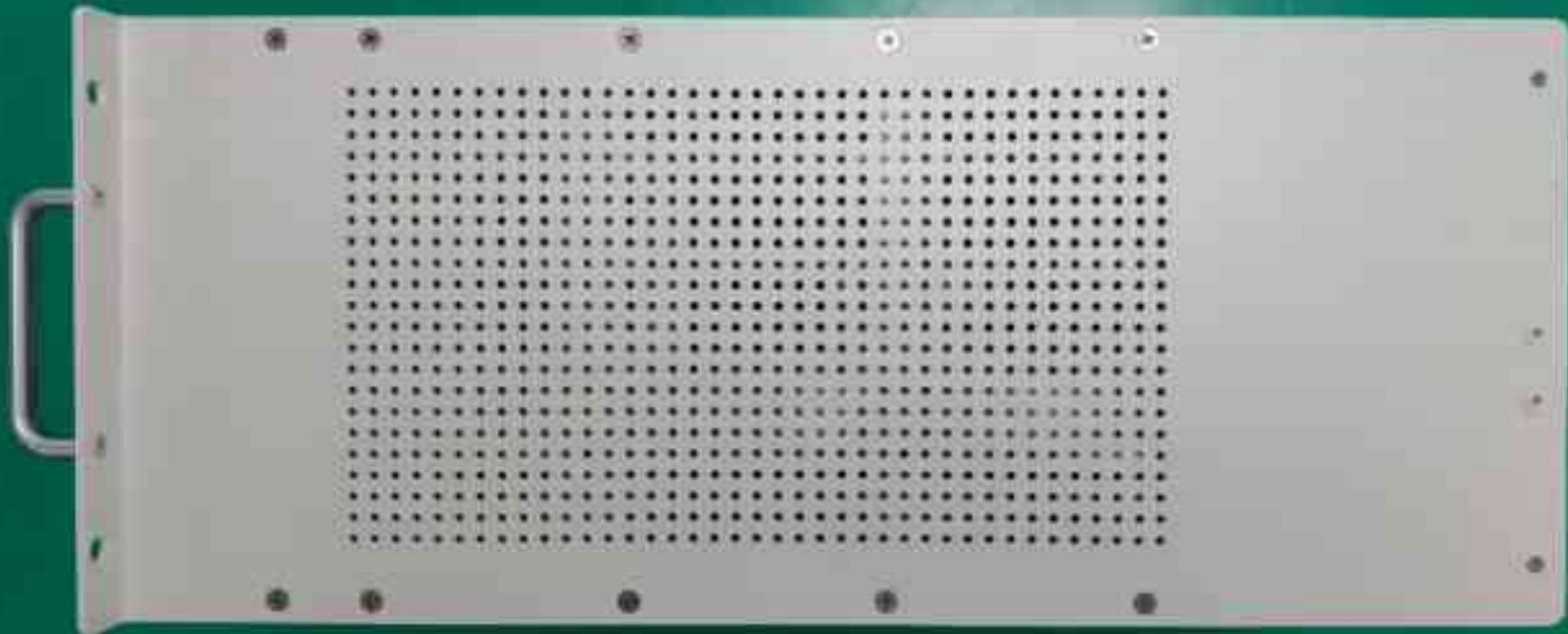
BR1  
BR2  
BR3  
BR4

BR1  
BR2  
BR3  
BR4

BR5  
BR6  
BR7  
BR8









PSU\_CON1

PSU\_CON2

Door Open\_F Door Open\_R

MEU EXT\_FAN1 EXT\_FAN2 EXT\_OCXO

MDU EXT\_FAN1 EXT\_FAN2 EXT\_OCXO

REF\_MON REF\_A\_In REF\_B\_In T\_Sync\_A Mon T\_Sync\_B Mon T\_Sync\_A In T\_Sync\_B In 5G\_IF\_In

UL1\_Out DL1\_In

DL0\_In UL0\_Out

UL1\_Out DL1\_In

DL0\_In UL0\_Out

UL1\_Out DL1\_In

DL0\_In UL0\_Out

UL1\_Out DL1\_In

DL0\_In UL0\_Out

UL1\_Out DL1\_In

DL0\_In UL0\_Out

UL1\_Out DL1\_In

DL0\_In UL0\_Out

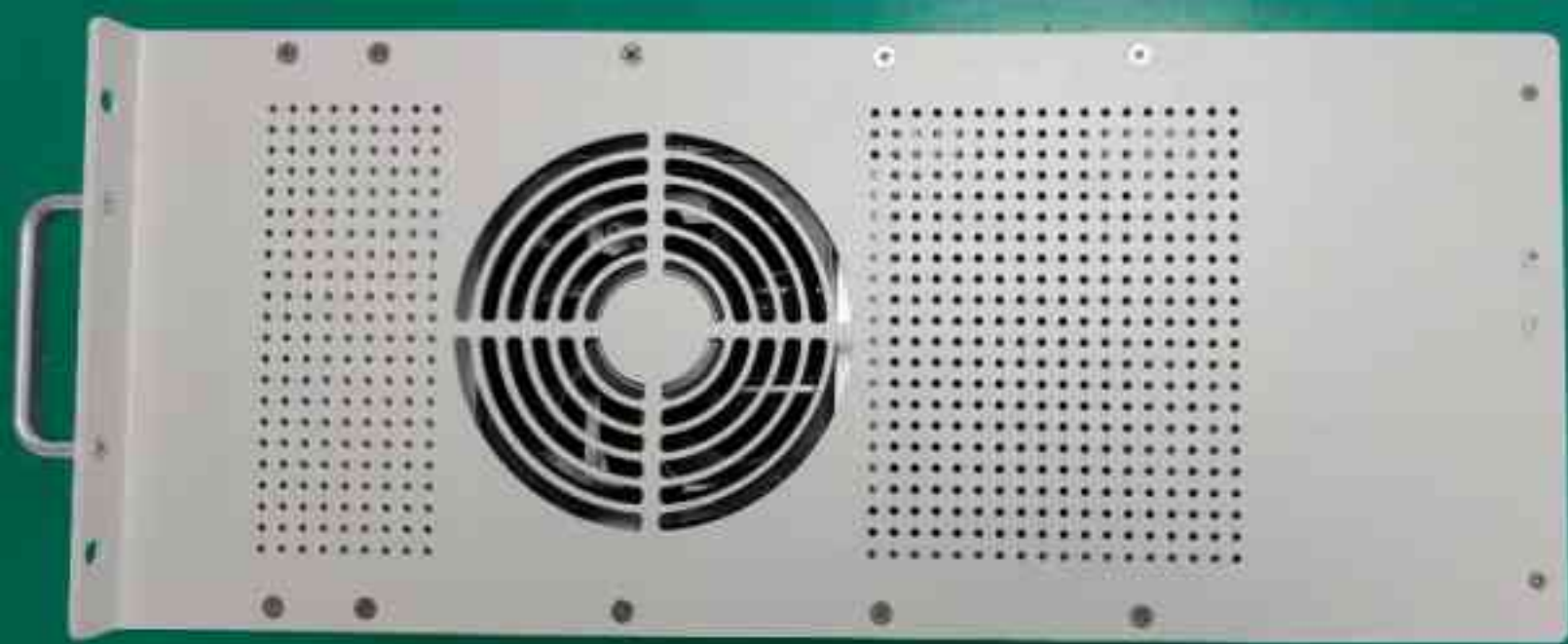
UL1\_Out DL1\_In

DL0\_In UL0\_Out

UL1\_Out DL1\_In

DL0\_In UL0\_Out

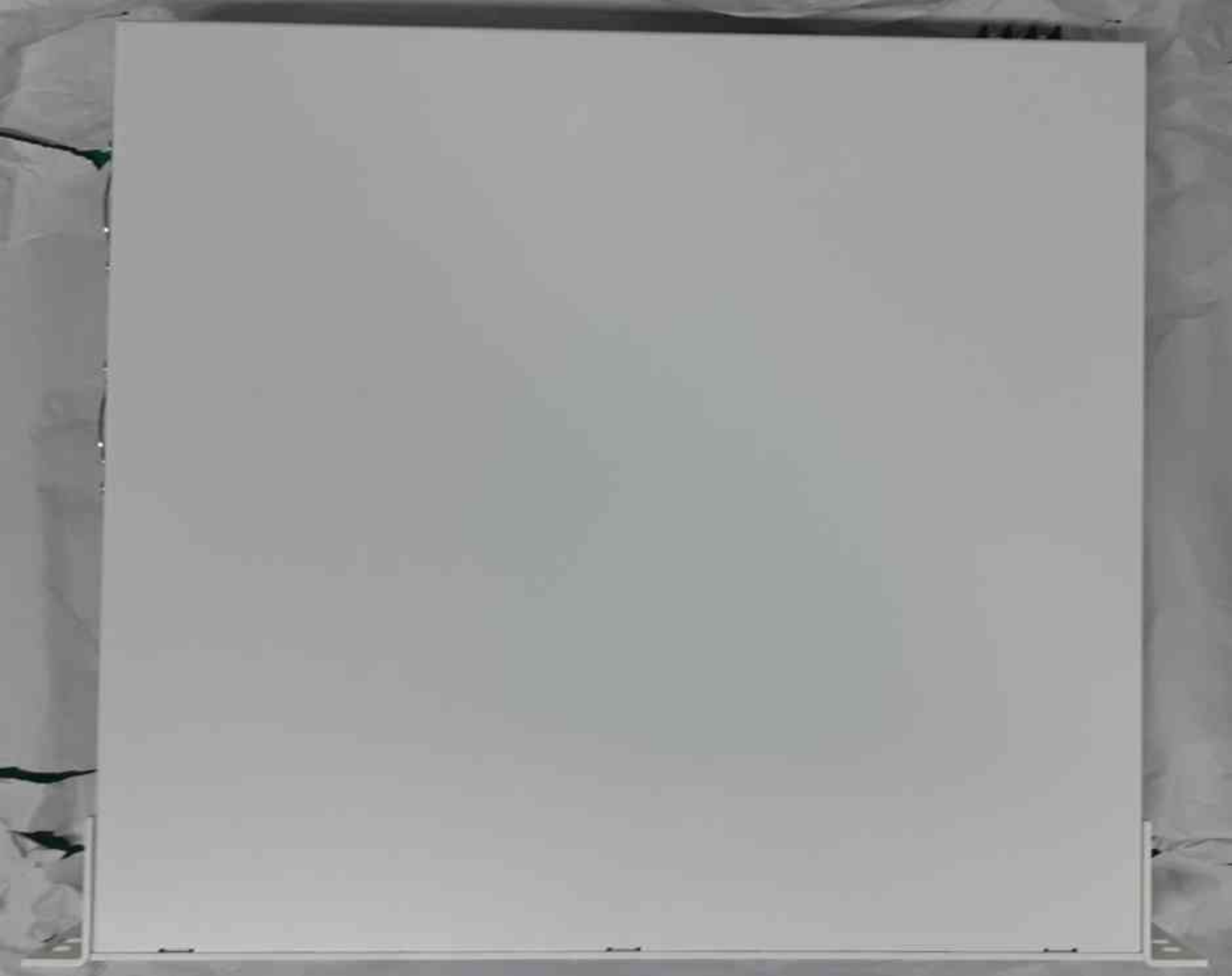














AC POWER



ON

OFF



AC FUSE  
250V T15AL

MOBI PWR



ON

OFF

+3V

+12V

+5V

GND

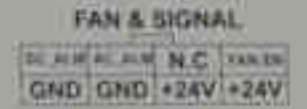
AC

FAIL

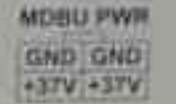








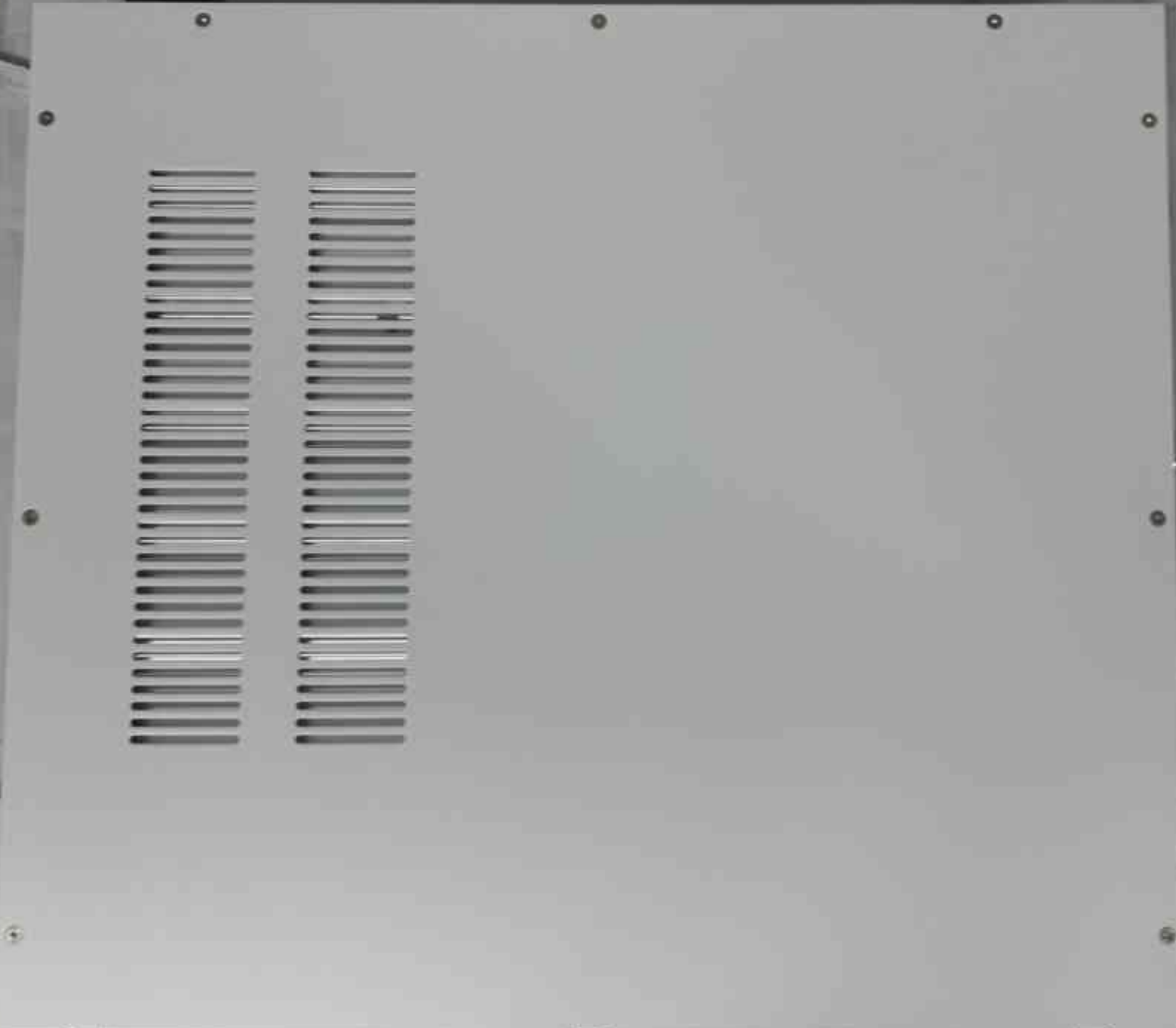
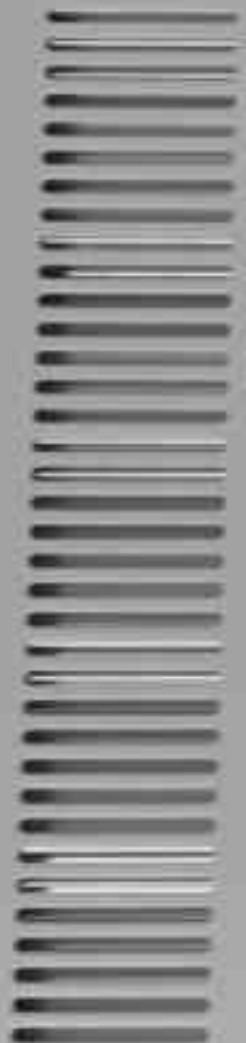
1-4 N.C.  
5-8 GND  
9-12 +5V

















**5G**

▲  
MIMO & DC

▲  
SISO

***mRU***



ALM    RUN    PWR

***39GHz***

◀ GND

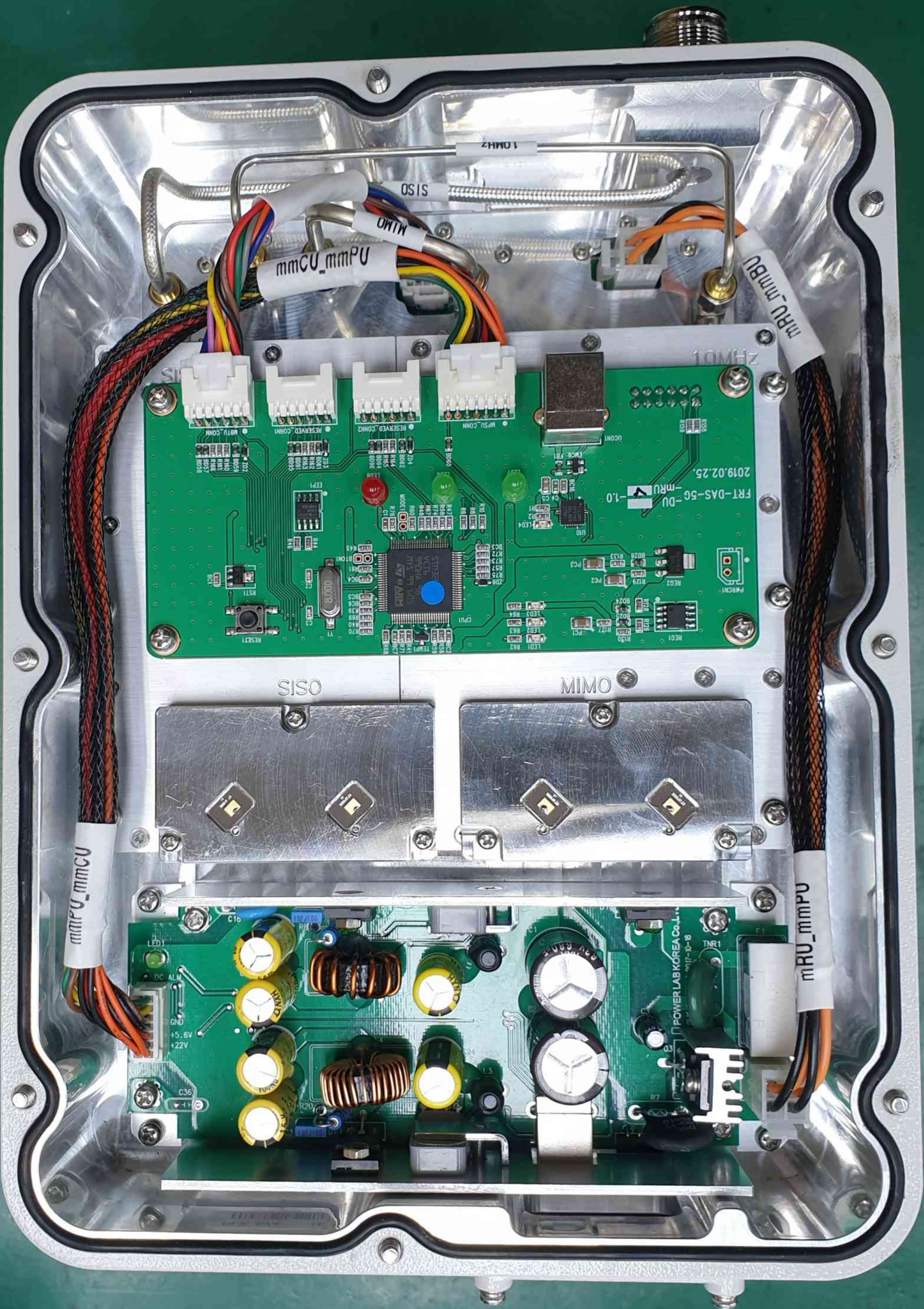
GND ▶

**FR**Tek  
Fiber Radio Technologies

DEBUG & S/W







mmCU\_mmpu

mRU\_mmpu

FR1-DAS-5G-DU-MRU-1.0  
2019.02.25

SISO

MIMO

mmCU\_mmpu

mRU\_mmpu

POWER LAB KOREA Co., Ltd.  
17-10-8







