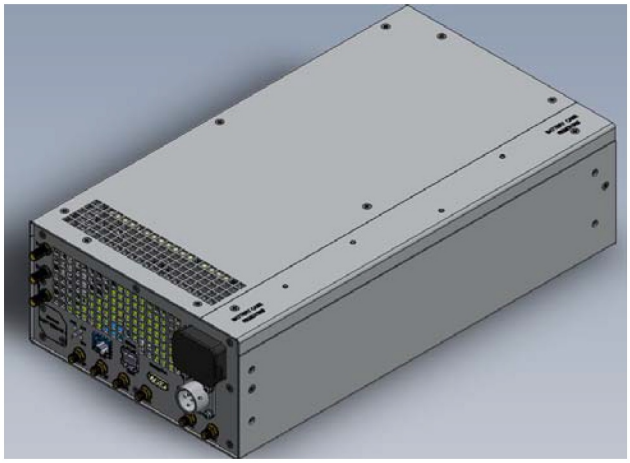


FCC ID 2BFW7-SDF MIDI SDF Cellular Platform Owner's Manual

Contents

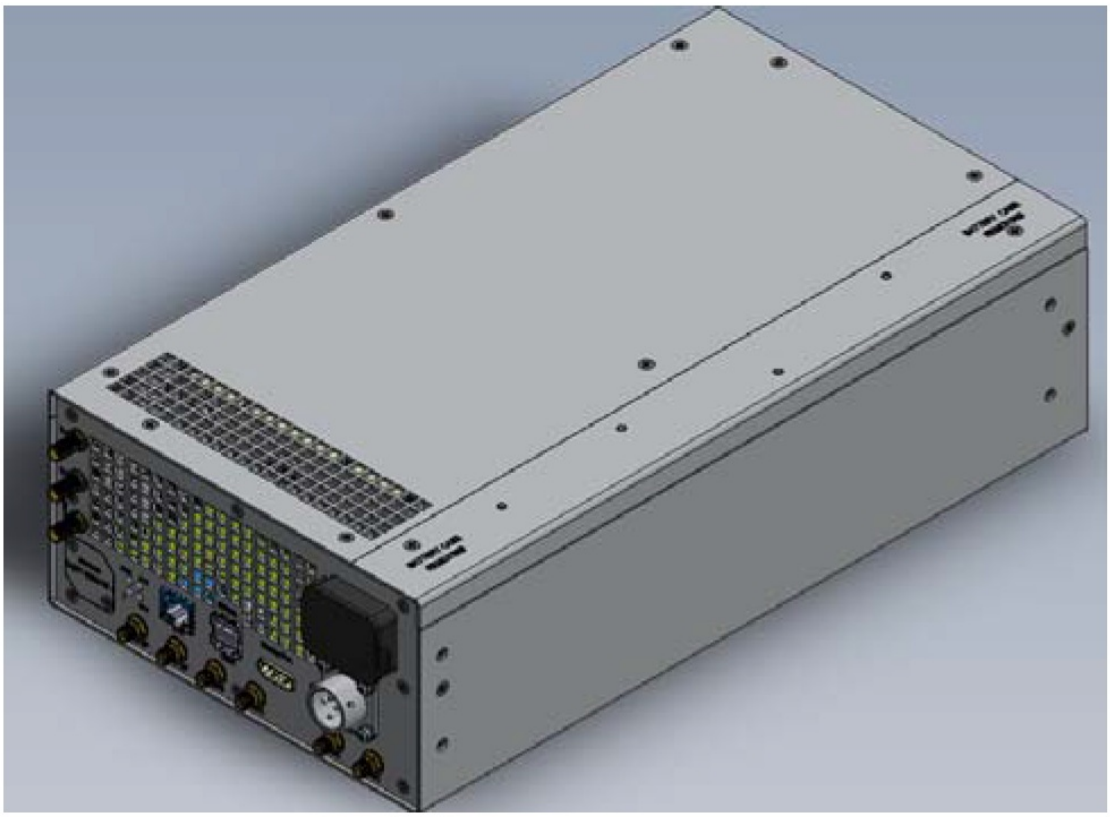
FCC ID 2BFW7-SDF MIDI SDF Cellular Platform

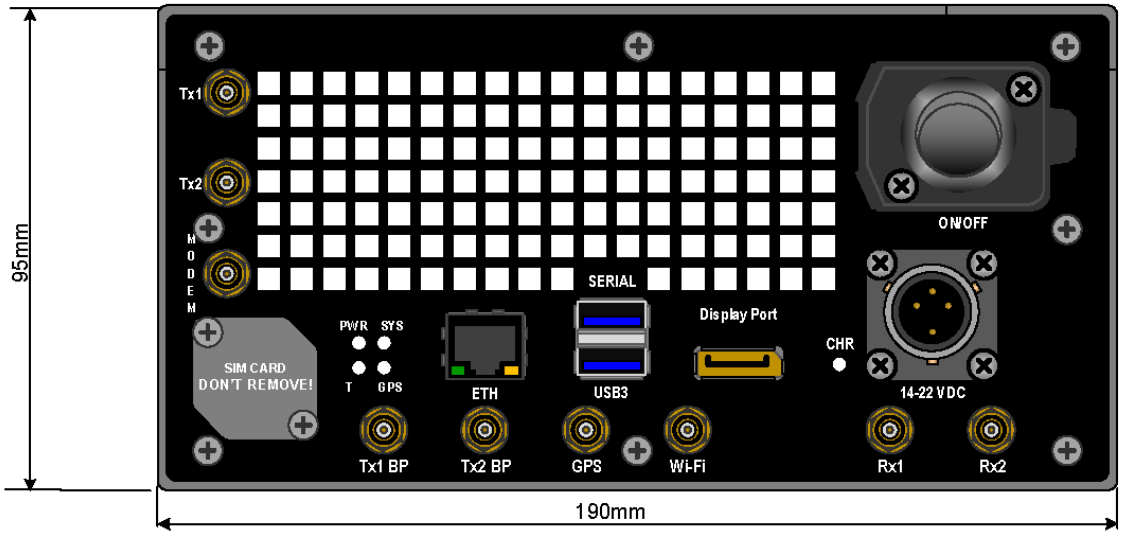
OWNER'S MANUAL

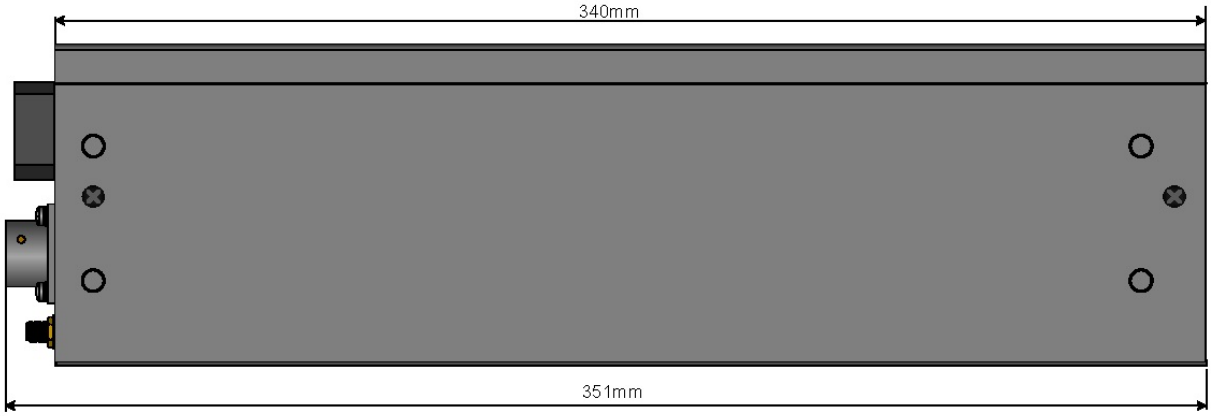
Compact Mobile Base Station Systems

The SDF MIDI Platform is a two Carrier Mobile Base Station solution give ability to work on 2G to 4G cellular Network.

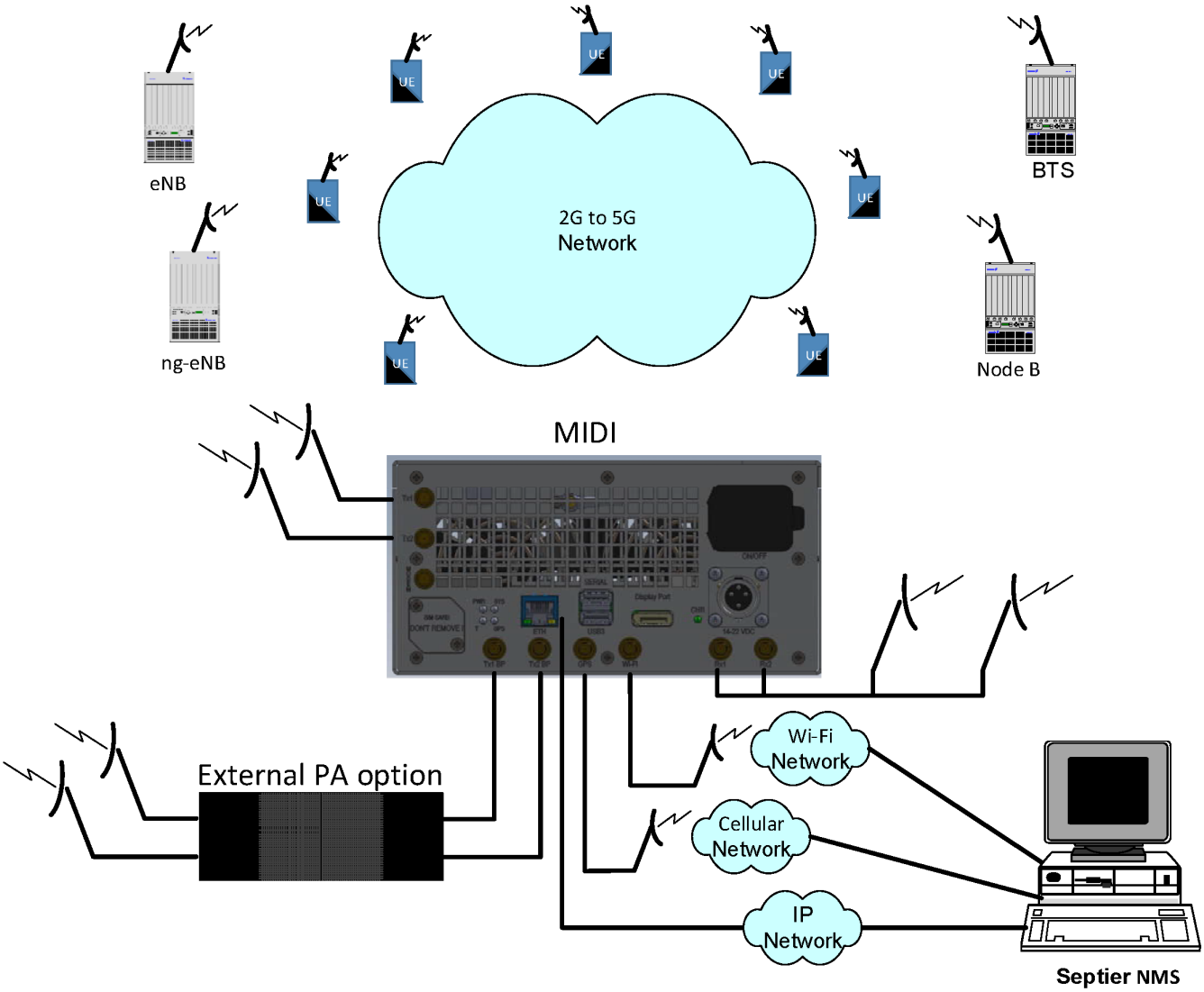
The MIDI platform is based on Intel i7 support embedded Linux operating system and provide base station solution and GNSS functionalities to meet application demands.







Application



Highlights

The MIDI platform features up to 2xSDR carrier, providing extremely high performance cellular applications. The unique thermal solution supports efficient front-to-back cooling solution

- Small size or 19-inch rack-mount enclosure
- Efficient front-to-back cooling
- Up to 2 independent SDR (software defined Radio)
- Includes Internal charger and Li-Ion battery
- Includes Internal dual RF Power Amplifier, up to 5Watt output per port (Lte signal)
- Support External RF Power Amplifier (bypass option)
- Support Wi-Fi, Ethernet or Lte network for Remote control
- Network management using SDF GUI software
- Support GNSS (GPS, GLONASS, Galileo, QZSS)
- Support GSM 850/900/1800/1900
- Support WCDMA B1/B2/B4/B5/B8
- Support LTE-FDD Bands:B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B20/B22/B28/B71
- Support LTE-TDD Bands:B38/B40/B41/B42/B66

- Dimension: 340x190x95mm (L*W*H)

System Interfaces

The platform provides the following interfaces and peripheral connectivity

- UIM interface
- Internal 3S Li-Ion battery (130Wh)
- RF separated TX/RX interface. Additionally internal Power Amplifier bypass output option
- On/Off power control
- USB3.0 Interface
- UART serial port over USB2.0 Interface
- GNSS external RF Antenna
- Wi-Fi external RF Antenna
- Remote control modem external RF Antenna
- Ethernet 1000/100/10 Interface
- Display port Interface
- External power supply
- System status LEDs

Power Supply Specification

- 360W continues power supply
- AC input: 85 to 264V, 47 to 63Hz
- Output: 15Vdc
- Protections : Short circuit/Overload/Over voltage/Over temperature
- Fully Enclosed plastic case
- Built-in active PFC function
- Fanless designed with -30 to +70C working temperature
- Dimension: 220x95x46mm (L*W*H)

Environmental specifications

- Temperature operating -5C to +50C
- Non-operating temperature -25C to 80C
- Humidity Operating 20% to 80% non-condensing

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the

user’s authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Specifications

- Model: MIDI SDF Cellular Platform
- Supported Networks: 2G to 4G
- Processor: Intel i7
- Operating System: Embedded Linux
- Interfaces: UIM, USB3.0, Ethernet, Display Port, etc.
- Power Supply: 360W continuous power supply
- Dimensions: 220x95x46mm (L*W*H)
- Temperature Range: Operating -5C to +50C, Non-operating -25C to 80C
- Humidity Range: Operating 20% to 80% non-condensing

Frequently Asked Questions (FAQ)

Q: What should I do if the device does not power on?

A: Check the power source connection and ensure it is within the specified input voltage range. Press the ‘ON/OFF’ button again after verifying the power source.

Q: How can I connect to a Wi-Fi network using the platform?

A: Use the ‘Wi-Fi external RF Antenna’ interface to connect to a Wi-Fi network. Ensure proper setup and configuration of the Wi-Fi settings.

Q: Can I use an external power supply with the MIDI SDF Cellular Platform?

A: Yes, you can use an external power supply as long as it meets the required specifications mentioned in the user manual.

Documents / Resources

	**FCC ID 2BFW7-SDF MIDI SDF Cellular Platform** [pdf] Owner's Manual 2BFW7-SDF MIDI SDF Cellular Platform, 2BFW7-SDF, MIDI SDF Cellular Platform, SDF Cellular Platform, Cellular Platform, Platform

References

- **User Manual**