

A thick, vertical blue bar with rounded ends, positioned to the left of the main text.

ME Series Routers

ME5000, ME5000M, ME5100S, ME5100 rev.X, ME5200S

Installation and Quick Start Guide

Firmware version 3.0.0

CONTENTS

1	ABSTRACT	4
2	DESIGN	5
2.1.	Design	5
2.1.1	ME5100S, ME5100 rev.X, ME5200S front panel	5
2.1.2	ME5000, ME5000M (chassis) front panel.....	7
2.1.3	LC18XGE line card	8
2.1.4	LC20XGE line card	9
2.1.5	LC8XLGE line card	9
2.1.6	FMC16 fabric and management card	10
2.1.7	FMC32 fabric and management card	11
2.1.8	ME5100S, ME5100 rev.X, ME5200S rear panel	12
2.1.9	ME5000, ME5000M rear panel.....	13
2.2.	Light Indication	14
2.2.1	ME5100S, ME5100 rev.X, ME5200S light indication	14
2.2.2	ME5000, ME5000M (chassis) light indication.....	16
2.2.3	LC18XGE line card light indication	16
2.2.4	LC20XGE line card light indication	17
2.2.5	LC8XLGE line card light indication	17
2.2.6	FMC16 card light indication.....	18
2.2.7	FMC32 card light indication.....	18
3	INSTALLATION AND CONNECTION	20
3.1.	Support brackets mounting.....	20
3.2.	ME5100S, ME5100 rev.X, ME5200S rack mounting.....	21
3.3.	Power module installation	22
3.4.	ME5000, ME5000M chassis mounting	23
4	CONNECTION TO POWER SUPPLY	26
5	ROUTER FACTORY SETTINGS	28
6	CONNECTION TO COMMAND LINE INTERFACE (CLI)	28
7	BASIC ROUTER CONFIGURATION	29
7.1.	Changing admin password	29
7.2.	Creating new users	29
7.3.	Assigning device name	30
7.4.	Configuring access to a management network via MGMT interface.....	30
7.5.	Applying basic settings	31
7.6.	Resetting the device to factory configuration using F function key.....	31

SYMBOLS

Notes and Warnings



Notes contain important information, tips or recommendations on device operation and configuration.



Warnings inform the user about situations that can harm the device or a person, lead to incorrect operation of the device or loss of data.

1 ABSTRACT

ME Series routers are multifunctional devices with a high port density intended for use in provider networks as aggregation routers and IP/MPLS network transport edge routers. Routers have a unified software and management interfaces.

This guide provides instructions for connecting to the mains, factory configuration of the device, and recommendations for initial setup of ME series routers. The guide is intended for technical personnel who perform installation, initial configuration and commissioning of routers.

2 DESIGN

This section describes the design of devices. It provides the images of front, rear, and side panels of the devices, the description of connectors, LED indicators and controls.

The routers are available in 19-inch metal rack mount cases; ME5100S, ME5100 rev.X, ME5200S rack case size is 2U, ME5000, ME5000M — 15U.

2.1. Design

2.1.1 ME5100S, ME5100 rev.X, ME5200S front panel

The front panel layout is shown in Figures 1, 2, 3.

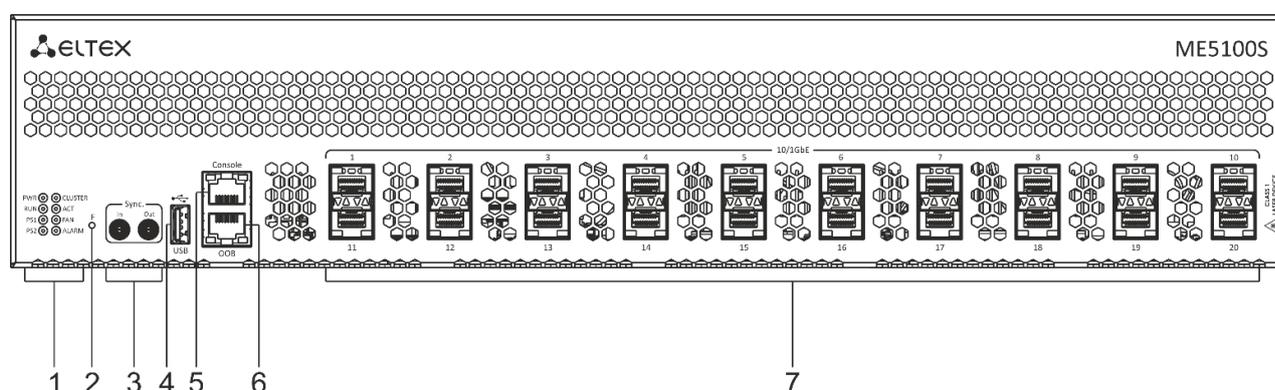


Figure 1— ME5100S front panel

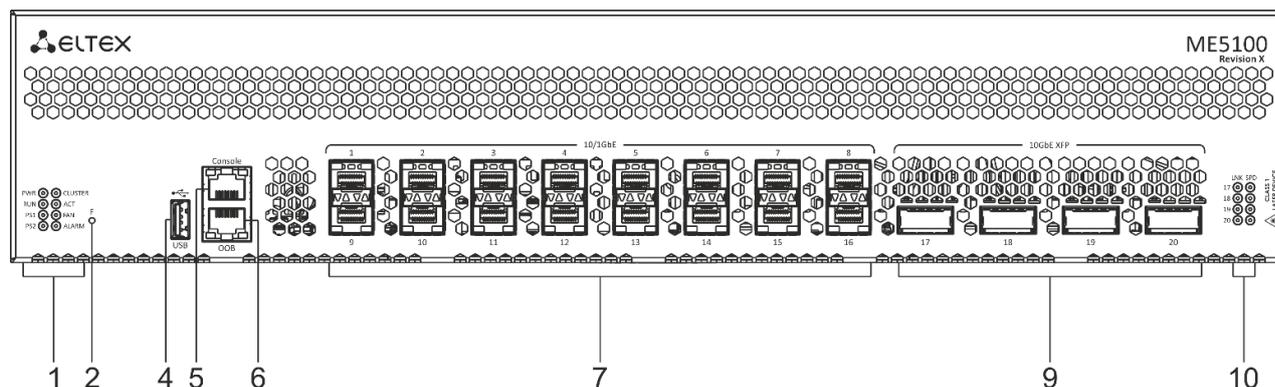


Figure 2 — ME5100 rev.X front panel

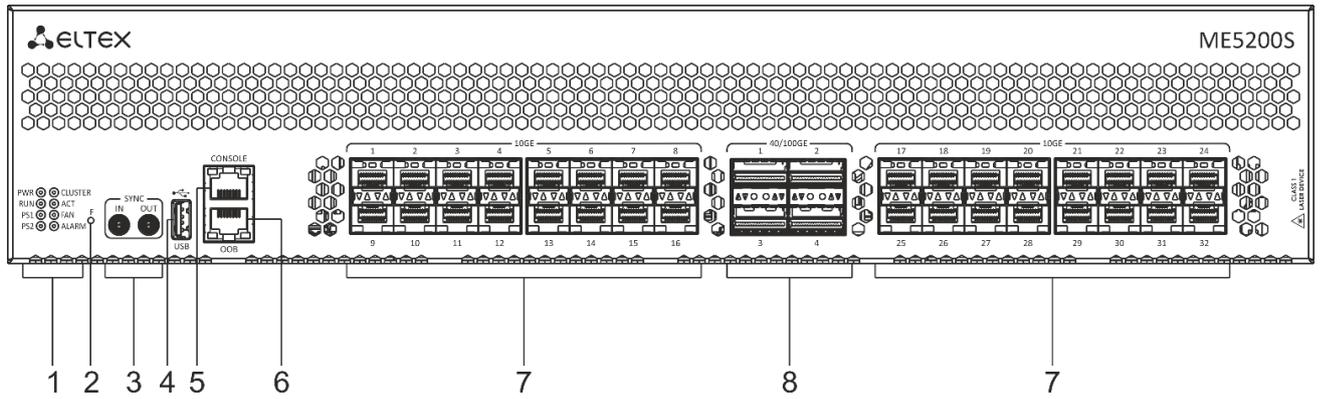


Figure 3 — ME5200S front panel

Table 1 lists connectors, LEDs and controls located on the front panel of routers.

Table 1 — Description of connectors, LEDs and controls located on the front panel of ME5100S, ME5100 rev.X, ME5200S

No.	Front panel element	Description
1	PWR	Device power LED
	RUN	Device status LED
	PS1	Power supply LED
	PS2	Power supply LED
	CLUSTER	Not supported in the current firmware version
	ACT	Not supported in the current firmware version
	FAN	Fan alarm LED
	ALARM	Alarm LED
2	F	Function key to reset the device to its factory default configuration
3	SYNC ¹	Input/output interfaces of synchronization signals. SubMiniature B (SMB) jacks, 50 ohm impedance
4	USB	Port to connect USB devices
5	CONSOLE	RS-232 console port for local device control
6	OOB	10/100/1000BASE-T (RJ-45) port (out-of-band) for remote device control. Control is provided via network, separately with a data transmission channel (MGMT1)
7	1-20 (ME5100S) 1-16, 17-32 (ME5200S) 1-16 (ME5100 rev.X)	Slots for installation of 10G SFP+/1G SFP transceivers
8	1-4	Slots for installation of QSFP+ for 40G and QSFP28 for 100G transceivers
9	17-20	Slots for installation of 10G XFP transceivers
10	LNK/SPD	A separate unit of XFP LEDs

¹ Only for ME5100S and ME5200S devices.

2.1.2 ME5000, ME5000M (chassis) front panel

The front panel layout of ME5000, ME5000M is shown in Figure 4.

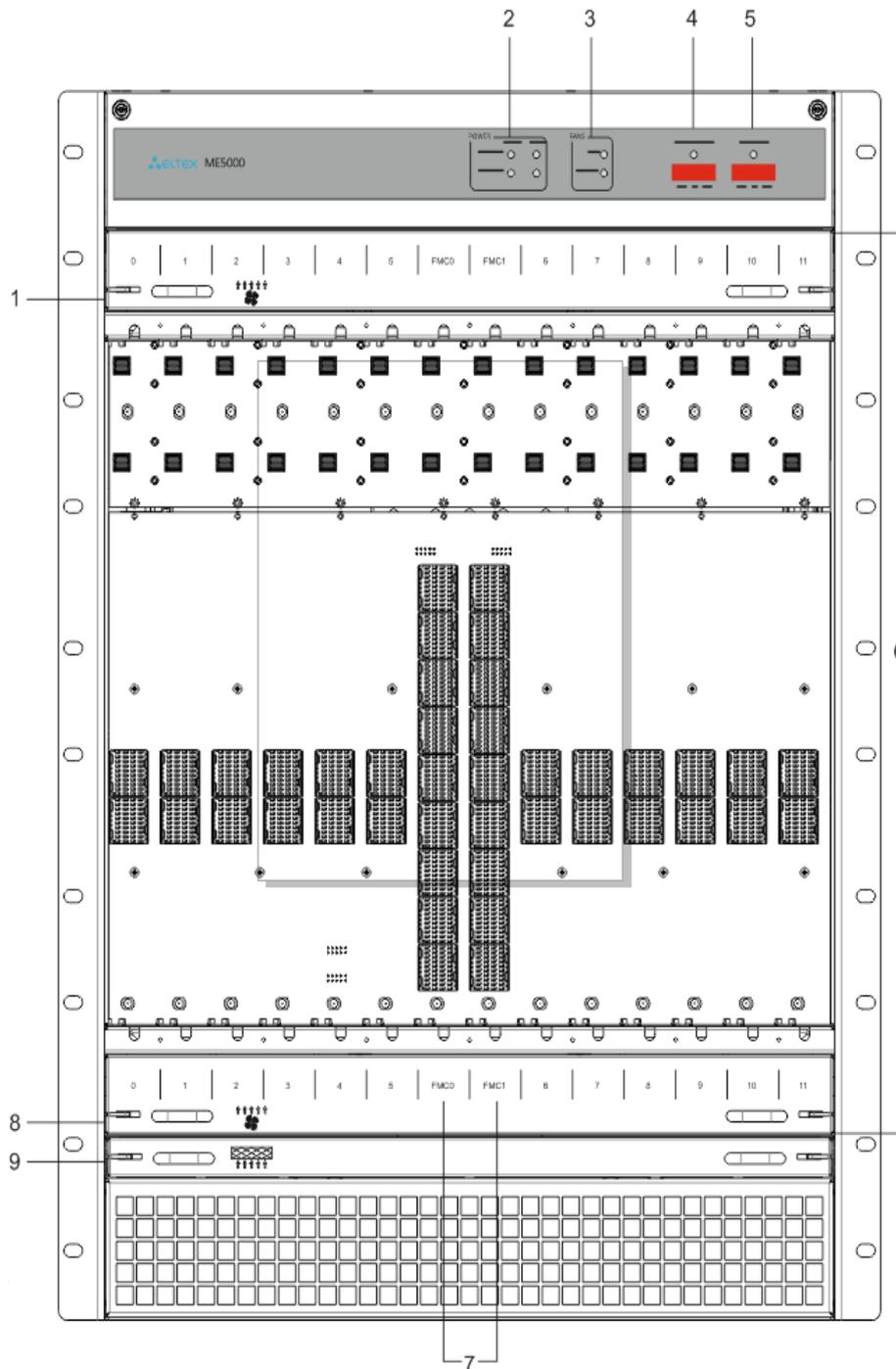


Figure 4 — ME5000, ME5000M (chassis) front panel

Table 2 lists connectors, LEDs and controls located on the front panel of ME5000, ME5000M.

Table 2 — Description of ME5000, ME5000M front panel connectors, LEDs and controls

No.	Front panel element	Description
1		Top ventilation panel
2	POWER	Device power LED
3	FANS	Fan alarm LED
4	YELLOW ALARM	Medium severity alarm
5	RED ALARM	High severity alarm
6	0-5, 6-11	Slots for installation of line cards
7	FMC0, FMC1	Slots for installation of fabric and management cards
8		Bottom ventilation panel
9		Filter

Cards to be installed into the rack are equipped with turning screws. To install a card into the slot correctly, bottom and top screws should be simultaneously rotated clockwise until tight. Heads of screws with a fully installed card should take a horizontal position.



Fabric and management cards (FMC) should be installed only in FMC0, FMC1 slots. Line cards (LC) should be installed only in slots for line cards (slots are marked with numbers). Attempts to install FMCs in LC slots (and vice versa) will cause mechanical damage of the device connectors.

To remove a card, simultaneously rotate bottom and top screws counter-clockwise. Heads of screws should take a position with a slope of about 45 degrees.

2.1.3 LC18XGE line card

The layout of LC18XGE line card is shown in Figure 5.

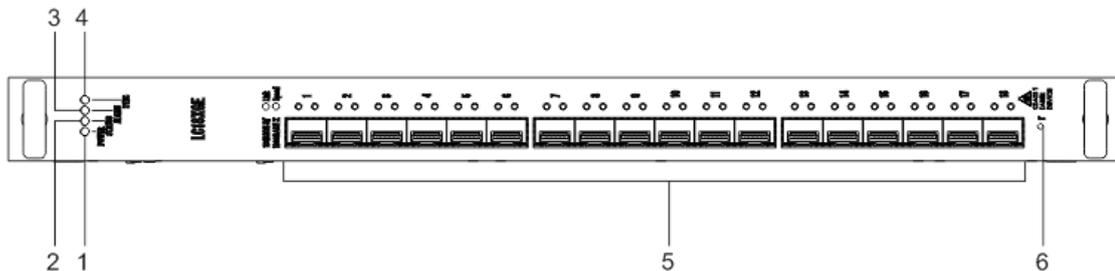


Figure 5 — LC18XGE line card

Table 3 lists connectors, LEDs and controls located on LC18XGE line card.

Table 3 — Description of connectors, LEDs and controls located on LC18XGE line card

No.	Front panel element	Description
1	POWER	Device power LED
2	STATUS	Line card status LED
3	ALARM	Alarm LED
4	SYNC	Not supported in the current firmware version
5	1-18	Slots for installation of 10G SFP+/1G SFP transceivers
6	F	Not supported in the current firmware version

2.1.4 LC20XGE line card

The layout of LC20XGE line card is shown in Figure 6.

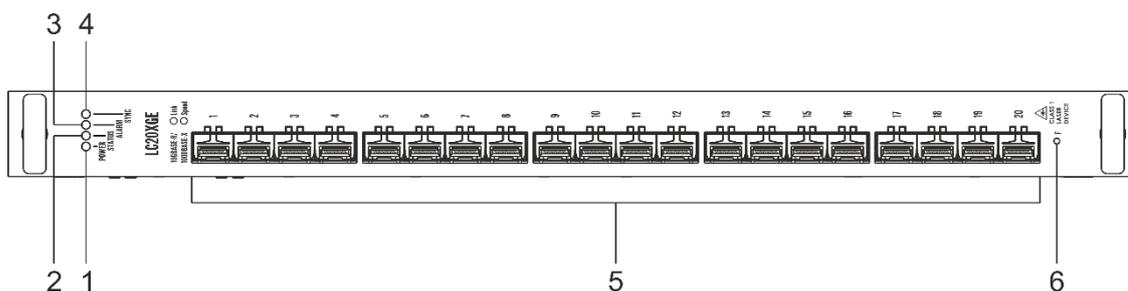


Figure 6 — LC20XGE line card

Table 4 lists connectors, LEDs and controls located on LC20XGE line card.

Table 4 — Description of connectors, LEDs and controls located on LC20XGE line card

No.	Front panel element	Description
1	POWER	Device power LED
2	STATUS	Line card status LED
3	ALARM	Alarm LED
4	SYNC	Not supported in the current firmware version
5	1-20	Slots for installation of 10G SFP+/1G SFP transceivers
6	F	Not supported in the current firmware version

2.1.5 LC8XLGE line card

The layout of LC8XLGE line card is shown in Figure 7.

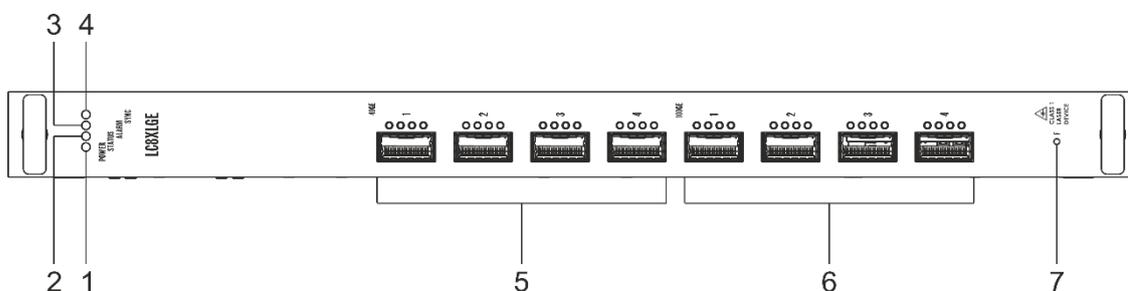


Figure 7 — LC8XLGE line card

Table 5 lists connectors, LEDs and controls located on LC8XLGE line card.

Table 5 — Description of connectors, LEDs and controls located on LC8XLGE line card

No.	Front panel element	Description
1	POWER	Device power LED
2	STATUS	Line card status LED
3	ALARM	Alarm LED
4	SYNC	Not supported in the current firmware version
5	1-4	Slots for installation of 40G QSFP+ transceivers
6	1-4	Slots for installation of 100G QSFP28 transceivers
7	F	Not supported in the current firmware version

2.1.6 FMC16 fabric and management card

The layout of FMC16 fabric and management card is shown in Figure 8.

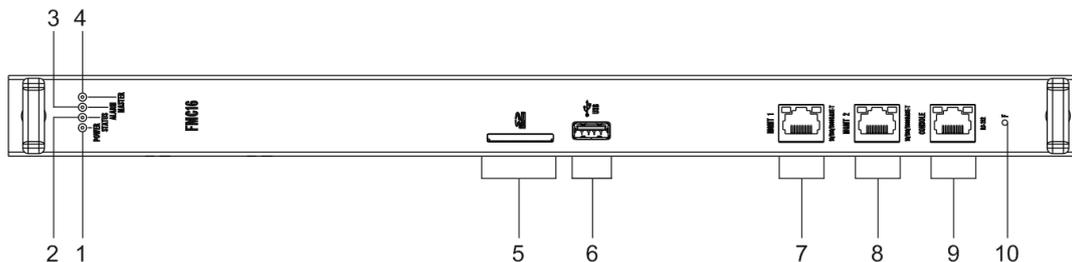


Figure 8 — FMC16 fabric and management card

Table 6 lists connectors, LEDs and controls located on FMC16 fabric and management card.

Table 6 — Description of connectors, LEDs and controls located on FMC16 fabric and management card

No	Front panel element	Description
1	POWER	Device power LED
2	STATUS	Card status LED
3	ALARM	Alarm LED
4	MASTER	Device operation mode LED (master/slave)
5		Not supported in the current firmware version
6	USB	Port to connect USB devices
7	OOB	10/100/1000BASE-T (RJ-45) (out-of-band) port for remote device control (MGMT1 interface). Control is provided via network, separately with a data transmission channel
8	MGMT	10/100/1000BASE-T (RJ-45) (out-of-band) port for remote device control (MGMT2 interface). Control is provided via network, separately with a data transmission channel
9	CONSOLE	Console port (RS-232) for local device control
10	F	Function key to reset the device to its factory default configuration

2.1.7 FMC32 fabric and management card¹

The layout of FMC32 fabric and management card is shown in Figure 9.

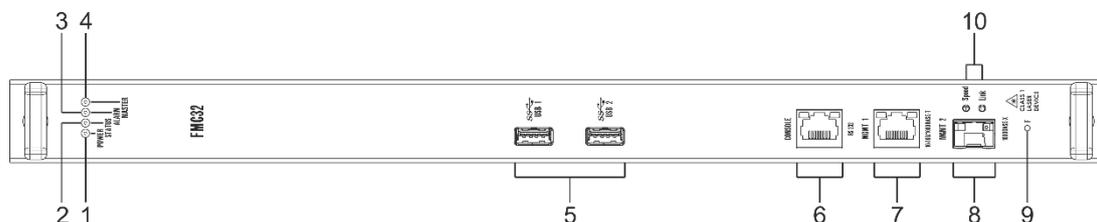


Figure 9 — FMC32 fabric and management card

Table 7 lists connectors, LEDs and controls located on FMC32 fabric and management card.

Table 7 — Description of connectors, LEDs and controls located on FMC32 fabric and management card

No.	Front panel element	Description
1	POWER	Device power LED
2	STATUS	Card status LED
3	ALARM	Alarm LED
4	MASTER	Device operation mode LED (master/slave)
5	USB 1, USB 2	Ports to connect USB devices
6	CONSOLE	Console port (RS-232) for local device control
7	MGMT1	10/100/1000BASE-T (RJ-45) (out-of-band) port for remote device control. Control is provided via network, separately with a data transmission channel
8	MGMT2	1000BASE-X SFP (out-of-band) port for remote device control. Control is provided via network, separately with a data transmission channel. 100BASE-X (100 Mbps) mode is not supported
9	F	Function key to reset the device to its factory default configuration
10	LNK/SPD	A separate unit of SFP LEDs

¹ FMC32 card is installed only in ME5000M chassis.

2.1.8 ME5100S, ME5100 rev.X, ME5200S rear panel

The rear panel layout of ME5100S, ME5100 rev.X, ME5200S is shown in Figure 10.

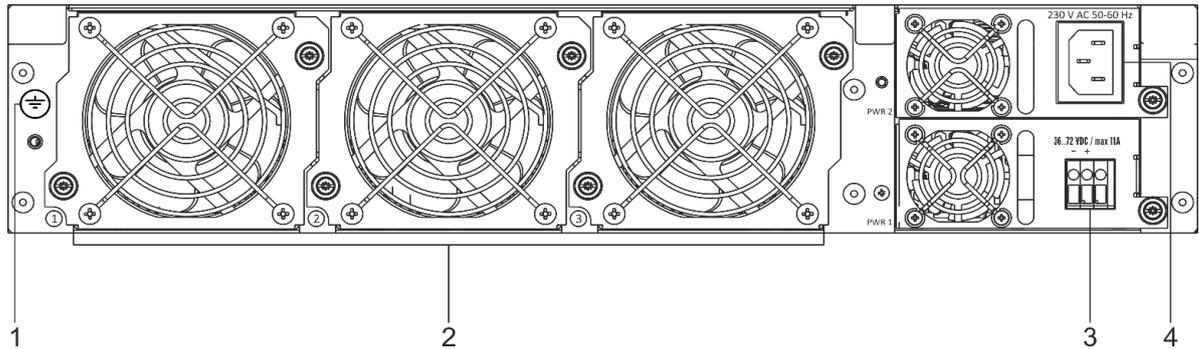


Figure 10 — ME5100S, ME5100 rev.X, ME5200S rear panel

Table 8 lists ME5100S, ME5100 rev.X, ME5200S rear panel connectors.

Table 8 — Description of ME5100S, ME5100 rev.X, ME5200S rear panel connectors

No.	Description
1	Earth bonding point of the device
2	Fans
3	Power supply 1
4	Power supply 2

2.1.9 ME5000, ME5000M rear panel

The rear panel layout of ME5000, ME5000M is shown in Figure 11.

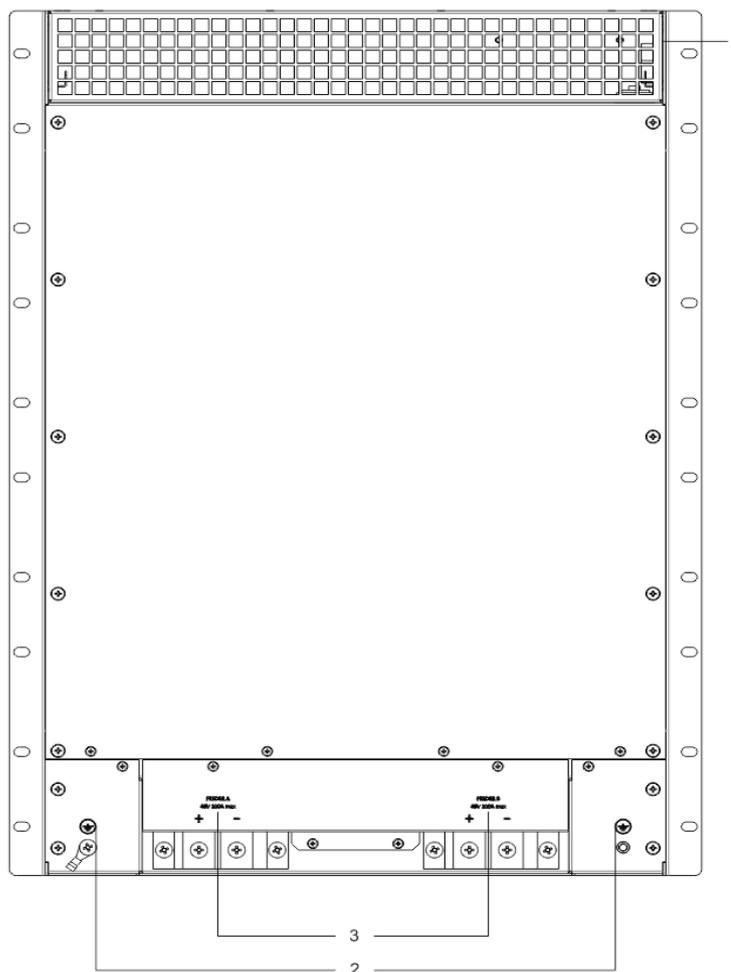


Figure 11— ME5000, ME5000M rear panel

Table 9 lists rear panel connectors of ME5000, ME5000M.

Table 9 — Description of ME5000, ME5000M rear panel connectors

No.	Description
1	Air vent
2	Earth bonding points of the device
3	Power supply terminals (48V)

ME5000, ME5000M front and rear panels have air vents for heat removal.



Do not block air vents by foreign objects. This may cause the components overheating and may result in device malfunction.

2.2. Light Indication

2.2.1 ME5100S, ME5100 rev.X, ME5200S light indication

Table 10 describes available states of ME5100S, ME5100 rev. X, ME5200S LED indicators.

Table 10 — States of ME5100S, ME5100 rev.X, ME5200S system indicators

LED name	LED function	LED state	Device state
POWER	Device power LED	Green	Device is in normal operation state
RUN	Device status LED	Red	Bootloader is launched
		Orange	Major firmware is launched
		Green	Device started up successfully and is working correctly
PS1 PS2	Power supply status LED	Green	Device is in normal operation state
		Orange	No input power supply
		Off	Power supply is not installed
CLUSTER	Not supported in the current firmware version	–	–
ACT	Not supported in the current firmware version	–	–
FAN	Cooling fan status	Off	All fans are operational
		Red	Failure of one or several fans. Possible cause of failure: at least one of the fans has stopped or is working at lower rpm
ALARM	Device alarm LED	Off	All fans and power modules are operational
		Red	One or more fans has failed. Power supply failure: a fault or a lack of a primary mains

SFP interfaces status is displayed by two LEDs – *LINK/ACT* and *SPEED*.

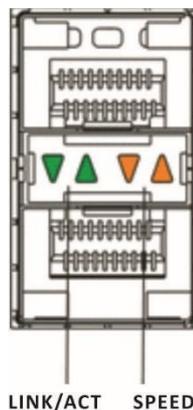


Figure 12 — SFP/SFP+ connector layout

For light indication meaning of SFP/SFP+ interfaces, see Table 11.

Table 11 — Light indication of SFP/SFP+ interfaces status LEDs

SPEED LED	LINK LED	Interface status
Off	Off	Port is disabled or connection is not established
Off	Solid on	1 Gbps connection is established
Solid on	Solid on	10 Gbps connection is established
X (any state)	Flashes	Data transfer is in progress

Similarly, QSFP28 interfaces status is displayed by *LINK/ACT* and *SPEED* LEDs.

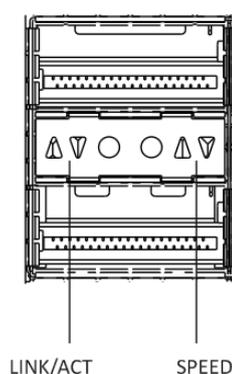


Figure 13 — QSFP28 connector layout

For light indication meaning of QSFP28 interfaces, see Table 12.

Table 12 — Light indication of QSFP interface status

SPEED LED	LINK LED	Interface status
Off	Off	Port is disabled or connection is not established
Off	Solid on	40 Gbps connection is established
Solid on	Solid on	100 Gbps connection is established
X (any state)	Flashes	Data transfer is in progress

XFP interfaces status is displayed by LINK and SPEED LEDs.



Figure 14 — A separate unit of XFP indicators layout

For light indication meaning of XFP interfaces, see Table 13.

Table 13 — Light indication of XFP interface status

SPEED LED	LINK LED	Interface status
Off	Off	Port is disabled or connection is not established
Solid on	Solid on	10 Gbps connection is established
Solid on	Flashes	Data transfer is in progress

2.2.2 ME5000, ME5000M (chassis) light indication

Table 14 describes available states of ME5000, ME5000M (chassis) LED indicators.

Table 14 — Status of ME5000, ME5000M system indicators

LED name	LED function	LED state	Device state
FEEDER A, FEEDER B (INPUT)	Device power LED	Green	Feeder power supply
		Off	No feeder power supply
FEEDER A, FEEDER B (STATE)	Polarity LED	Red	Connection polarity is incorrect
		Off	Correct connection
YELLOW ALARM	Medium severity alarm LED	Off	No alarms
		Yellow	Alarm
RED ALARM	High severity alarm LED	Off	No alarms
		Red	Alarm
FANS	Cooling fan status	Off	All fans are in normal operation state
		Red	Failure of one or more fans. Possible cause of failure: at least one of the fans has stopped or is working at lower rpm.

2.2.3 LC18XGE line card light indication

Table 15 describes available states of LC18XGE line card system indicators.

Table 15 — Status of LC18XGE line card system indicators

LED name	LED function	LED State	Device State
POWER	Device power LED	Green	Device is in normal operation state
STATUS	Device status LED	Red	Bootloader is launched
		Orange	Major firmware is launched
		Green	Line card started up successfully and is synchronized with FMC
ALARM	Alarm LED	Red	Line card alarm
		Off	No alarms
SYNC	Is not implemented	—	—

2.2.4 LC20XGE line card light indication

Table 16 describes available states of LC20XGE line card system indicators.

Table 16 — Status of LC20XGE line card system indicators

Indicator name	Indicator function	LED State	Device State
POWER	Device power LED	Green	Device is in normal operation status
STATUS	Device status LED	Red	Bootloader is launched
		Orange	Major firmware is launched
		Green	Line card started up successfully and is synchronized with FMC
ALARM	Alarm LED	Red	Line card alarm
		Off	No alarms
SYNC	Is not implemented	–	–

2.2.5 LC8XLGE line card light indication

Table 17 describes available states of LC8XLGE line card system indicators.

Table 17 — Status of LC8XLGE line card system indicators

Indicator name	Indicator function	LED State	Device State
POWER	Device power LED	Green	Device is in normal operation state
STATUS	Device status LED	Red	Bootloader is launched
		Orange	Major firmware is launched
		Green	Line card started up successfully and is synchronized with FMC
ALARM	Alarm LED	Red	Line card alarm
		Off	No alarms
SYNC	Is not implemented	–	–

For light indication meaning of LC8XLGE line card, see Table 18.

Table 18 — Light indication of QSFP+ and QSFP28 interfaces

LED states				Interface state
Off	Off	Off	Off	Port is disabled or connection is not established
Solid on	Off	Off	Off	40 Gbps connection is established
Solid on	Off	Off	Solid on	100 Gbps connection is established
Flashes	Off	Off	X (any state)	Data transfer is in progress

2.2.6 FMC16 card light indication

Table 19 describes available states of FMC16 card light indicators.

Table 19 – FMC16 fabric and management card light indication

Indicator name	Indicator function	LED state	Device state
POWER	Device power LED	Green	Device is in normal operation state
STATUS	Device status LED	Red	Bootloader is launched
		Orange	Major firmware is launched
		Green	Card started up successfully and is in normal operation state
ALARM	Alarm LED	Red	Card alarm
		Off	No alarm
MASTER	Device operation mode LED (master/slave)	Green	Master
		Off	Slave

Ethernet interfaces status is represented by two LEDs – green *LINK/ACT* LED and amber *SPEED* LED.

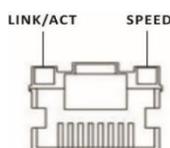


Figure 15 — RJ-45 connector layout

For light indication meaning, see Table 20.

Table 20 – Light indication of 10/100/1000BASE-T Ethernet ports status

SPEED LED	LINK/ACT LED	Ethernet interface status
Off	Off	Port is disabled or connection is not established
Off	Solid on	10 Mbps or 100 Mbps connection is established
Solid on	Solid on	1000 Mbps connection is established
X (any state)	Flashes	Data transfer is in progress

2.2.7 FMC32 card light indication

Table 21 describes available states of FMC32 card light indicators.

Table 21— Light indication of FMC32 fabric and management card

LED name	LED function	LED State	Device State
POWER	Device power LED	Green	Device is in normal operation state
STATUS	Device status LED	Red	Bootloader is launched
		Orange	Major firmware is launched
		Green	Card started up successfully and is in normal operation status
ALARM	Alarm LED	Red	Card alarm
		Off	No alarm
MASTER	Device operation mode LED (master/slave)	Green	Master
		Off	Slave

Ethernet interfaces status is represented by two LED indicators – green *LINK/ACT* LED and amber *SPEED* LED.

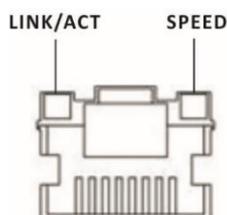


Figure 16 — RJ-45 connector layout

For light indication meaning, see Table 22.

Table 22 — Light indication of 10/100/1000BASE-T Ethernet ports status

SPEED LED	LINK/ACT LED	Ethernet interface status
Off	Off	Port is disabled or connection is not established
Off	Solid on	10 Mbps or 100 Mbps connection is established
Solid on	Solid on	1000 Mbps connection is established
X (any state)	Flashes	Data transfer is in progress

SFP interface status is represented by two LINK and SPEED LEDs placed on a separate unit.



Figure 17 — Layout of a separate unit of SFP LEDs

For light indication meaning of SFP interface, see Table 23.

Table 23 — Light indication of SFP interface

SPEED LED	LINK LED	Interface status
Off	Off	Port is disabled or connection is not established
Solid on	Solid on	1 Gbps connection is established
X (any state)	Flashes	Data transfer is in progress

3 INSTALLATION AND CONNECTION

This section describes the rack mounting procedure and power connection.

3.1. Support brackets mounting

ME5100 rev.X, ME5100S, ME5200S delivery package includes support brackets for rack installation and mounting screws to fix brackets to the device case. To install the support brackets:

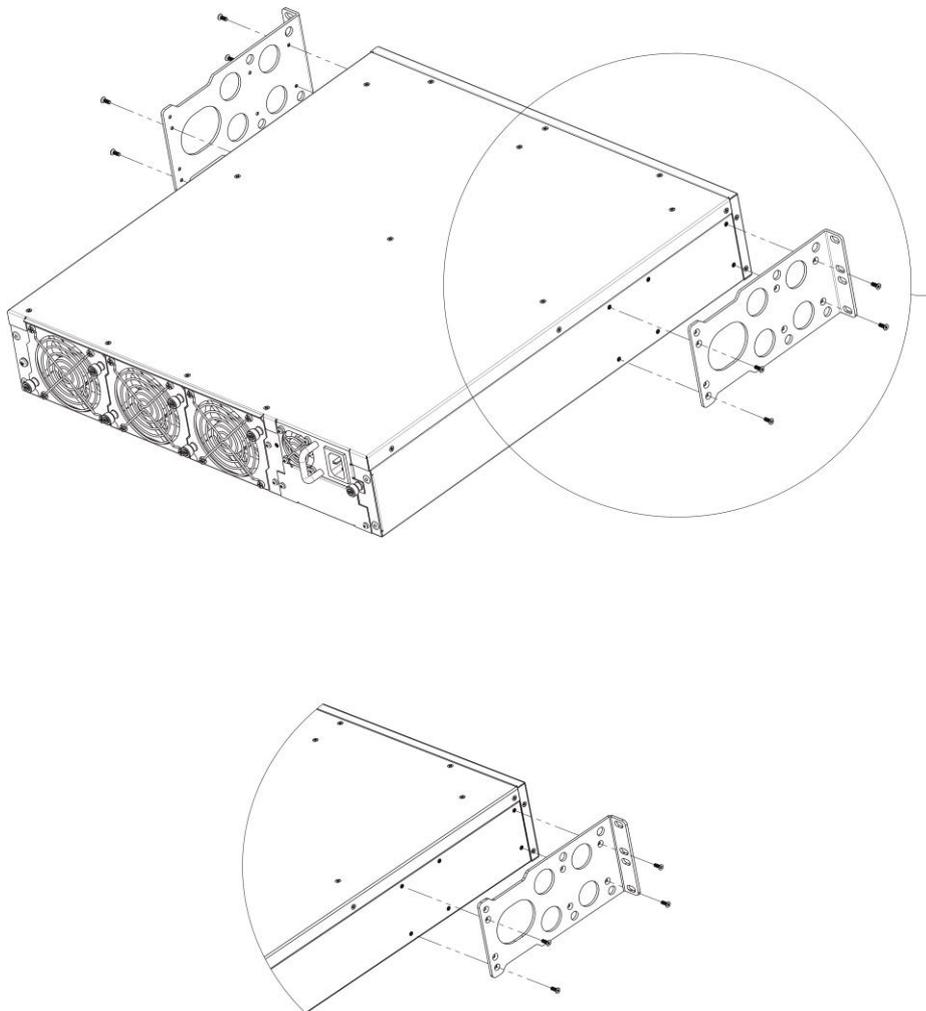


Figure 18 — Support brackets mounting

1. Align mounting holes in the support bracket with the corresponding holes in the device side panel.
2. Use a screwdriver to screw the support bracket to the case.
3. Repeat steps 1 and 2 for the second support bracket.

3.2. ME5100S, ME5100 rev.X, ME5200S rack mounting

To install the device to the rack:

1. Attach the device to the vertical guides of the rack.
2. Align mounting holes in the support bracket with the corresponding holes in the rack guides. Use the holes of the same level on both sides of the rack guides to ensure the device horizontal installation.
3. Use a screwdriver to screw the device to the rack.

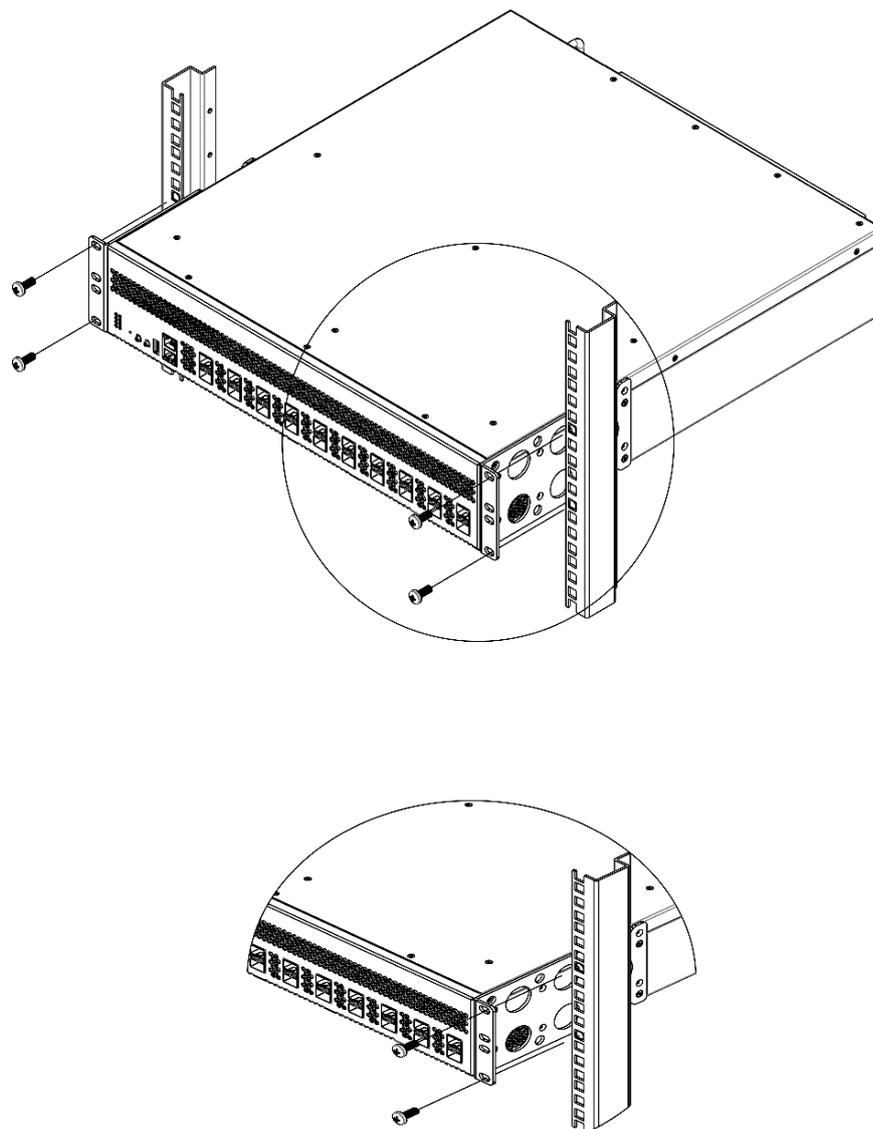


Figure 19 — Device rack mounting



Do not block air vents and fans located on the rear panel to avoid components overheating and subsequent device malfunction.

3.3. Power module installation

ME5100S, ME5100 rev.X, ME5200S routers can operate with one or two power modules.

From the electric point of view, both places for power module installation are equivalent. Power modules can be inserted and removed without powering the device off. When an additional power module is inserted or removed, the device continues to operate without reboot.

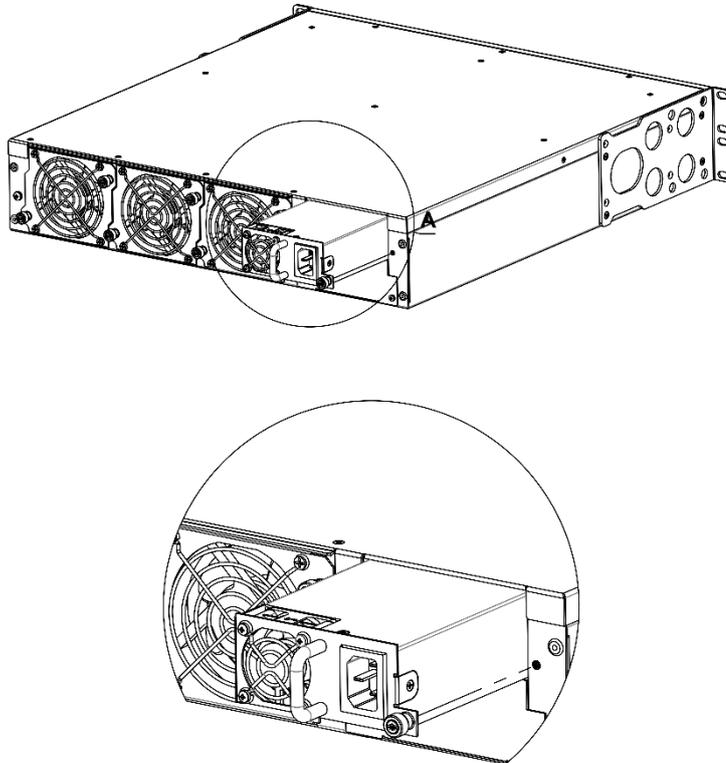


Figure 20 — Power module installation

The state of power modules can be checked by LEDs located on the router front panel (see Section 2.2.1 ME5100S, ME5100 rev.X, ME5200S light indication) or by diagnostics available via the management interfaces.



Power module alarm indication may be caused not only by the module failure, but also by the lack of the primary power supply.

3.4. ME5000, ME5000M chassis mounting

The ME5000, ME5000M delivery package includes slide rails for rack mounting and screws for attaching them to the vertical rack rails.

To mount the slide rails:

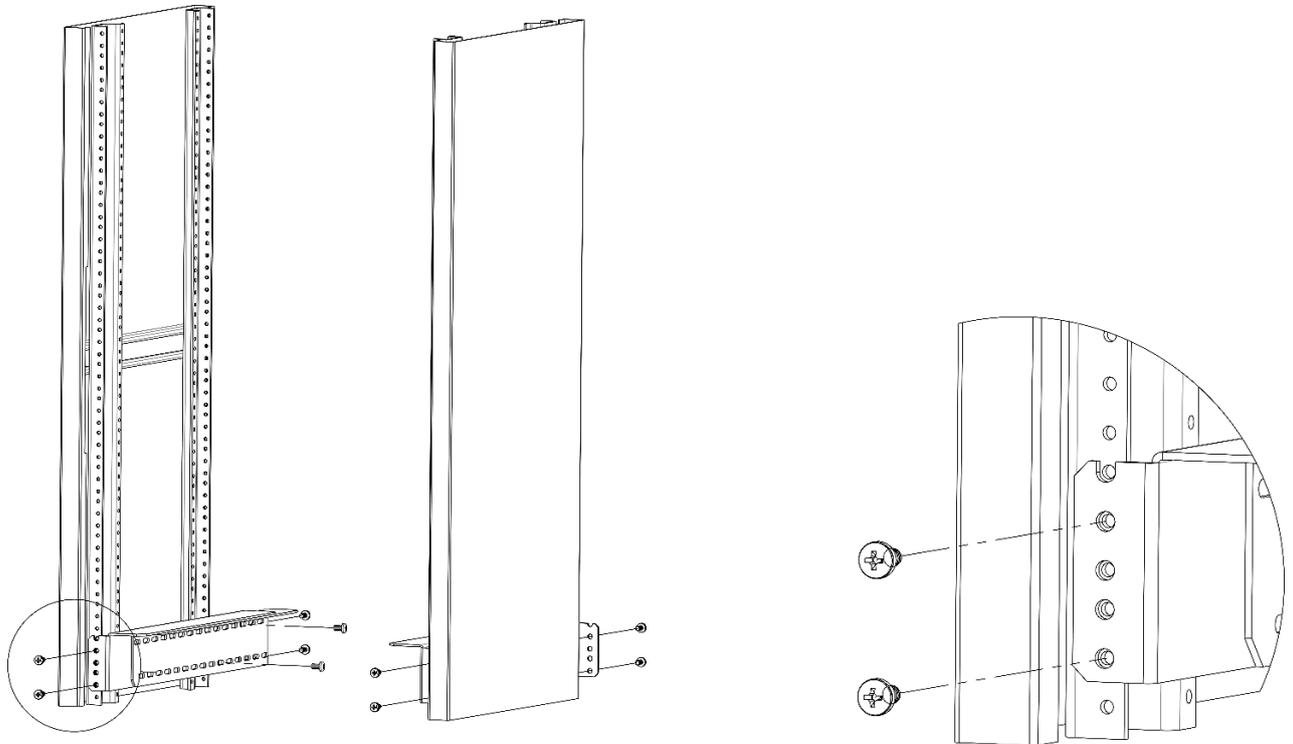


Figure 21 — Installation of slide rails into the rack

1. Attach the slide rails to the vertical rack guides.
2. Align mounting holes in the slide rails with the corresponding holes in the rack guides. Use the holes of the same level on both sides of the rack guides to ensure the horizontal installation.
3. Use a screwdriver to screw the slide rails to the rack.



Prior to installing the ME5000, ME5000M chassis into the rack, the transport screws should be removed.

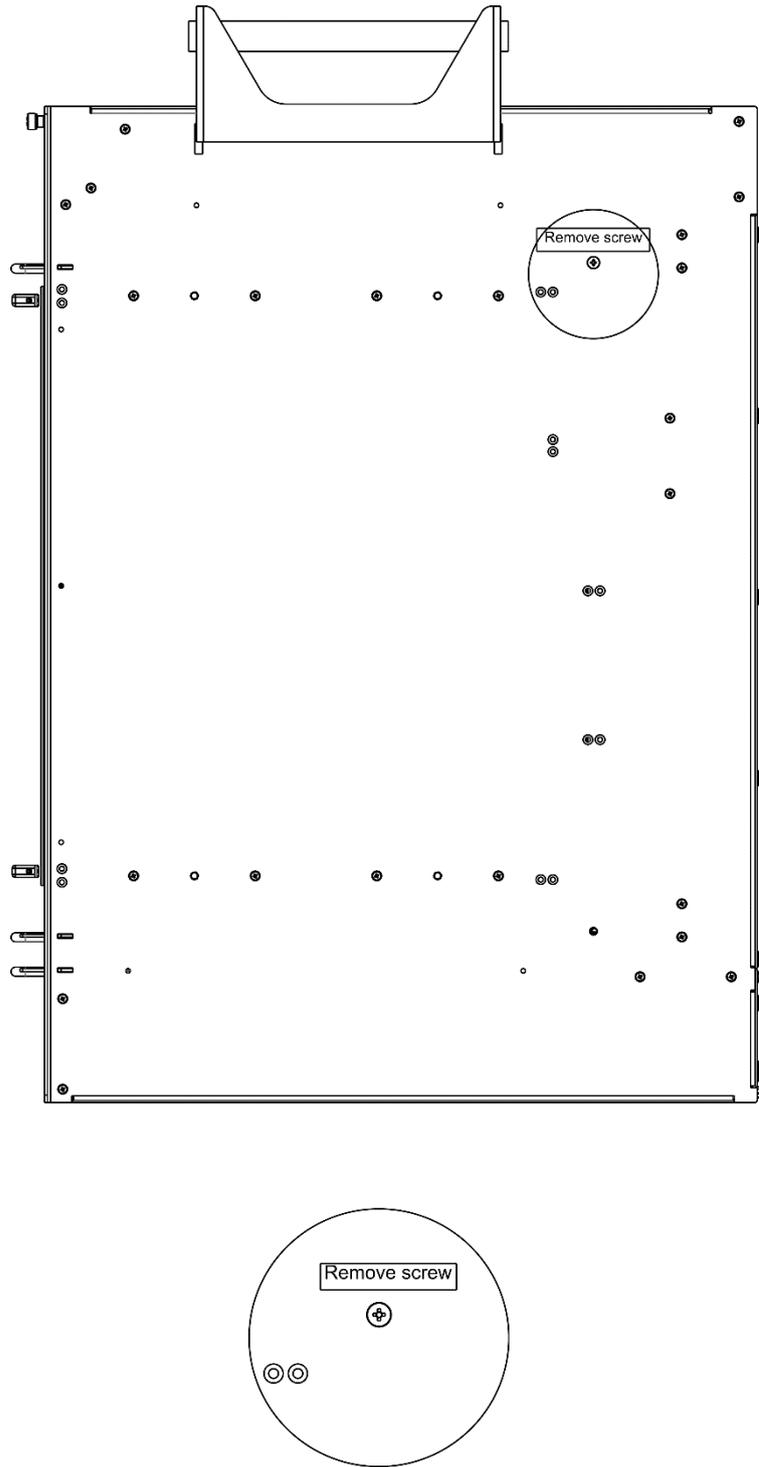


Figure 22 — ME5000, ME5000M chassis side panel with transport screws

To mount the chassis into the rack:

1. Mount the chassis on the slide rails.
2. Align the screw holes on the chassis with the holes on the vertical rack guides.
3. Use a screwdriver to screw the chassis to the rack.

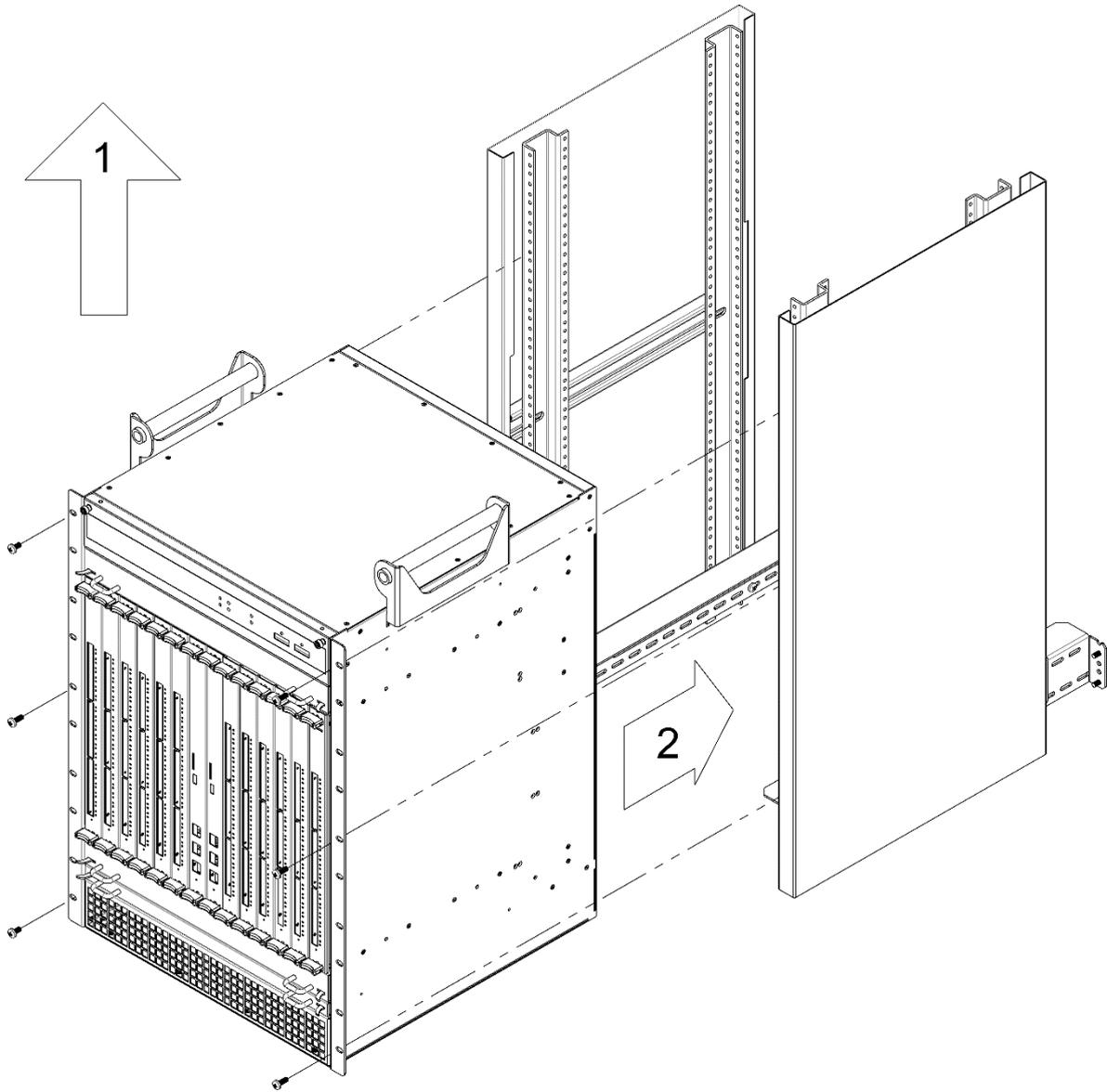


Figure 23 — ME5000, ME5000M chassis installation to the rack

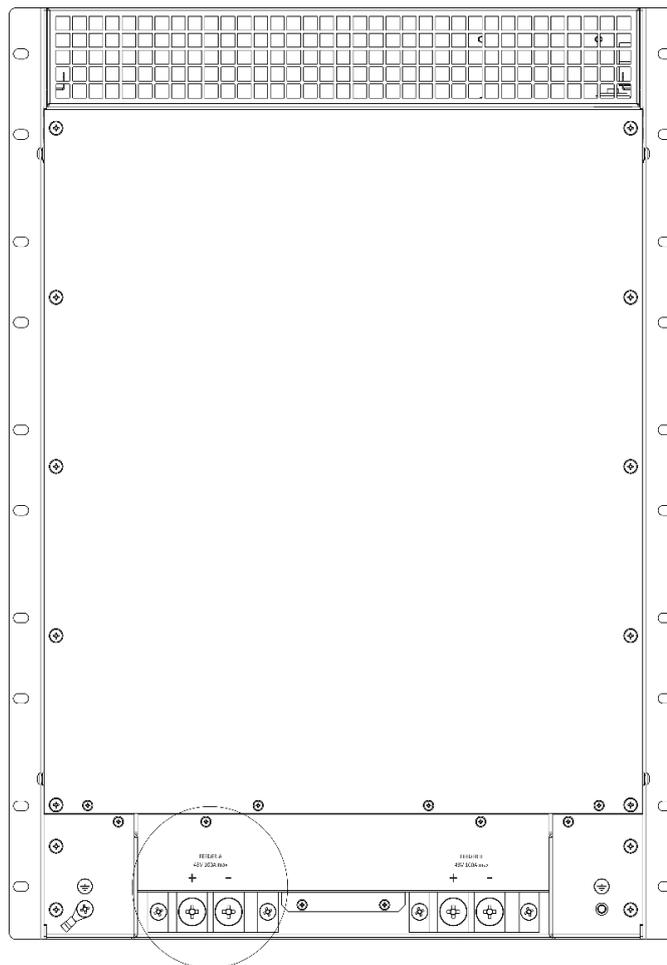
4 CONNECTION TO POWER SUPPLY

1. Before connecting the power supply, the device must be earthed. A shielded multi-conductor cable should be used for earthing. The earthing device and the earthing cable sizing should comply with the requirements of Electric Installation Code.
2. If a PC or another device is supposed to be connected to the switch console port, the device should be also securely earthed.
3. Connect power cable to the device.
 - ME5100S, ME5100 rev.X, ME5200S:

Depending on the delivery package, the device can be powered by AC or DC electrical network. To connect the device to AC power supply, use the cable from the delivery package. To connect the device to DC power supply, use the cable with cross-section not less than 1 mm². The terminals of redundant power modules permit the connection of cables with a cross-section from 24 AWG to 12 AWG.

- ME5000, ME5000M:

Power supply is performed from -48V DC network. To connect the device to DC power supply, use the cable with cross-section not less than 16 mm².



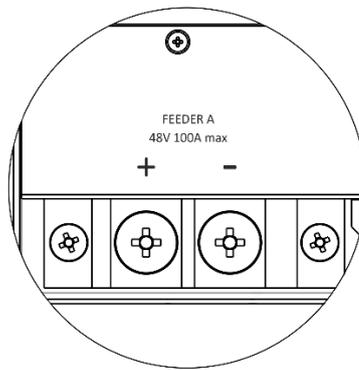


Figure 24 — ME5000, ME500M connection to power supply network

4. Turn the device on and check the front panel LEDs to make sure the router is in normal operating conditions after the device fully loaded.

5 ROUTER FACTORY SETTINGS



To enable the device configuration on the first startup, the admin account is created in the router configuration. The default username and password is “admin” and “password”. We strongly recommend to change administrator password during the initial configuration of the router.

6 CONNECTION TO COMMAND LINE INTERFACE (CLI)

Connection is performed via RS-232 console port.

Step 1. Using RJ-45/DB-9 cable included into the device delivery package, connect the router **Console** port (or **Console** port of the fabric and management card) to the PC RS-232 port.

Step 2. Open a terminal emulator application (e.g. HyperTerminal or Minicom) and create a new connection. VT100 terminal emulation mode should be used.

Specify the following settings for RS-232 interface:

- Baud rate: 115200 bps;
- Data bits: 8 bit;
- Parity: none;
- Stop bits: 1;
- Flow control: none.

7 BASIC ROUTER CONFIGURATION

Upon the first startup, the router configuration procedure includes the following steps:

1. Changing password for "admin" and "root" users.
2. Creating new users.
3. Assigning device name (Hostname).
4. Configuring access to a management network via MGMT interface.
5. Applying basic settings.



By default, a user "admin" with the password "password" is created.

7.1. Changing admin password

To ensure the secure system access, the password for the privileged "admin" user should be changed. The "admin" user has the highest privilege level — **p15**. Username and password are required for logging during device administrative sessions.

To change the "admin" user password, use the following commands:

```
ME5100S:EOS# configure
ME5100S:EOS(config)# username admin
ME5100S:EOS(config-user)# password <new-password>
ME5100S:EOS(config-user)# exit
ME5100S:EOS(config)# commit
```

By default, the system has access to the Linux command shell with superuser rights, the login and password for this is root / password. During the initial system setup, it is recommended to change the default password for the "root" user and, if necessary, also to deny access to the console for the "root" user.

To change the "root" superuser password, use the following commands:

```
ME5100S:EOS# configure
ME5100S:EOS(config)# system rootshell password <new-password>
ME5100S:EOS(config)# commit
```

To deny the superuser access to the console, use the following commands:

```
ME5100S:EOS# configure
ME5100S:EOS(config)# system rootshell console-access disable
ME5100S:EOS(config)# commit
```

7.2. Creating new users

To create a new system user or to configure any of the parameters such as username, password, or privilege level use the following commands:

```
ME5100S:EOS(config)# username <name>
ME5100S:EOS(config-user)# password <password>
ME5100S:EOS(config-user)# privilege <privilege>
ME5100S:EOS(config-user)# exit
ME5100S:EOS(config)# commit
```



The p1 privilege level allows accessing the device and executing “ping” and “telnet” commands. The p2–p9 privilege levels allow accessing the device and viewing its operation status, but the device configuration is disabled. The p10–p14 privilege levels allows both the access to the device and configuration of majority of its functions. The p15 privilege level allows both the access to the device and configuration of all its functions.

Example of commands, that allow creating two users and applying the changes: the first user “fedor” with password “12345678” and p15 privilege level, and the second user “ivan” with password “password” and p1 privilege level.

```
ME5100S:EOS# configure
ME5100S:EOS(config)# username fedor
ME5100S:EOS(config-user)# password 12345678
ME5100S:EOS(config-user)# privilege p15
ME5100S:EOS(config-user)# exit
ME5100S:EOS(config)# username ivan
ME5100S:EOS(config-user)# password password
ME5100S:EOS(config-user)# privilege p1
ME5100S:EOS(config-user)# exit
```

7.3. Assigning device name

To assign a device name, use the following commands:

```
ME5100S:EOS# configure
ME5100S:EOS(config)# hostname <new-name>
```

When a new configuration is applied, command prompt will change to the value specified by <new-name> parameter.

7.4. Configuring access to a management network via MGMT interface

To configure access to a management network, it is required to assign IP address, subnet mask and gateway address to MGMT interface. MGMT interface is assigned to VRF mgmt-intf service interface.

MGMT interface:

ME5100S:

0/fmc0/1

ME5000:

0/fmc0/1 —MGMT1 FMC0 interface

0/fmc0/2 —MGMT2 FMC0 interface

0/fmc1/1 —MGMT1 FMC1 interface

0/fmc1/2 —MGMT2 FMC1 interface

- Example of configuring MGMT1 FMC0 interface IP address

Interface parameters:

- IP address — **192.168.16.144**;
- Subnet mask — **255.255.255.0**;
- Default gateway IP address — **192.168.16.1**.

```
ME5100S:EOS# configure
ME5100S:EOS(config)# interface mgmt 0/fmc0/1
ME5100S:EOS(config-subif)# ipv4 address 192.168.16.144/24
ME5100S:EOS(config-subif)# exit
ME5100S:EOS(config)# router static vrf mgmt-intf
ME5100S:EOS(config-vrf)# address-family ipv4 unicast
ME5100S:EOS(config-unicast)# destination 0.0.0.0/0 192.168.16.1
ME5100S:EOS(config-destination)# root
ME5100S:EOS(config)# commit
```

Configure access to the router via Telnet.

```
ME5100S:EOS# configure
ME5100S:EOS(config)# telnet server vrf mgmt-intf
ME5100S:EOS(config-vrf)# exit
ME5100S:EOS(config)# commit
```

Configure access to the router via SSH.

```
ME5100S:EOS# configure
ME5100S:EOS(config)# ssh server vrf mgmt-intf
ME5100S:EOS(config-vrf)# exit
ME5100S:EOS(config-vrf)# commit
```

7.5. Applying basic settings

The settings described in the examples are applied using the “**commit**” commands.

If during configuration a remote access to the device was used and the network parameters of management interface were changed, after entering “**commit**” command the connection with the device can be broken.

7.6. Resetting the device to factory configuration using F function key

1. Power off the device.
2. Power on, immediately press F function key and hold until the red RUN indicator starts flashing.
3. Reboot the device again.

TECHNICAL SUPPORT

For technical assistance in issues related to operation of ELTEX Ltd. equipment, please contact the Service Center.

Feedback form on the website: <https://eltex-co.ru/support/>

Sevicedesk: <https://servicedesk.eltex-co.ru/>

Visit ELTEX official website to get the relevant technical documentation and software for ELTEX Ltd. equipment:

Official site: <https://eltex-co.com/>

Download center: <https://eltex-co.com/support/downloads>