

M9670 XX R G2 Main Switch



M9670 SB R G2 = 6/2/0/2

M9670 SE R G2 = 14/4/2/3

M9670 ME R G2 = 14/3/4/4

M9670 SP R G2 = 22/6/3/4

M9670 MP R G2 = 22/2/5/5

- ✓ Control and supervision of M9600 infrastructure,
- ✓ M9600 equipment (radio base stations and other switches) inter-connection function:
 - ✓ switching
 - ✓ routing
 - ✓ call processing for voice and data transmission
- ✓ Line connections to dispatch positions, to private or public external telephone networks via a PABX, to external analogue and digital networks, and connections with operating equipment,
- ✓ Subscriber mobility management.

Functions specific to the Main Switch

- ✓ Management of the regional network,
- ✓ Management of the database of this regional network (localization of the subscribers),
- ✓ Ciphering board for end to end encryption of communications,
- ✓ Access to IP and X25 networks (signalling between networks),
- ✓ Access to the management system via a X25 interface.

Components and interfaces

M9670 Radio Switch includes:

- ✓ Command modules, duplicated for redundancy: central processor, interfaces with external data networks.
- ✓ Network interface modules: switching matrix, interfaces with M9600 infrastructure and line connected equipment.
- ✓ Power supply modules with integrated fans.
- ✓ Alarm processing, protection modules, controls, auto protection mechanisms.
- ✓ The number of boards depends on the traffic capacity and the inter-connection requirements with the radio base stations and the other switches.

M9670 Switch interfaces::

- ✓ Digital link:
PCM interface at 2.048 Mbps (32*64kbps) with the base stations or other switches, conform to standard G703 (ITU-T)
-> up to 8 PCM interfaces,
-> up to 31 time slots for voice and data transmission.
- ✓ X25 interface:
Duplex synchronous serial link at 19.2 kbps (electrical level ITU-T V.28),
2 X25 ports per Main Switch
-> connection to the management system.
- ✓ Interface to line connected equipment:
Option to be ordered separately: M9670 OPT FRLC G2, 19.2 kbps links (RS432-V.11)
-> up to 24 line connected terminals per Radio.
- ✓ Ethernet interface:
10 Mbps Ethernet interface enabling the access to an external LAN, the connection to the DNC, the access to data networks and external servers.
The DNC must be ordered separately.

Technical specifications

Mechanical specifications

Cabinet dimensions:

WidthxDepthxHeight (cm) : 78 x 60 x 200

Weight: 250 kg

Rack: standard 19"

Capacity

Hard disk: 1.2 Gbytes

Internal switching : 16 internal PCM links
at 2.048 Mbps

512x512 switching matrix

Power

Power supply: - 48 VDC, 21 A

Tolerance: - 40 V ; - 57 V

Environmental conditions

Operating conditions (typical):

Air conditioned environment (shelter, technical premises, etc.)

Temperature: +5 to +40°C

Relative humidity: +5 to +85%

Pressure: 70 to 106 kPa

Environmental specifications for operation,

storage and transport: Conform to IEC 721

Electromagnetic compatibility :

Conform to CE marking

User security

Specifications conform to IEC 950

Standard configurations

M9670 XX R G2 is also called M9671 w/x/y/z R G2

Note: in w/x/y/z, w,x,y and z are respectively the numbers of SIC channels (number of distant cabinets connected: MSW, SSW, BS...), CELI boards (depends of number of cells connected: BS, µBS, LAG...), PCM2 boards (depends on number of switches connected:SSW, MSW...) and CONF boards (depends of number of communications needed).

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M9670 MP R G2 = 22/2/5/5

List of MSW components	M9670 SB R G2	M9670 SE R G2	M9670 ME R 2G	M9670 SP R G2	M9670 MP R G2	Notes
Cabinet	1	1	1	1	1	
CPU IE board	2	2	2	2	2	
CPU P board	2	2	2	2	2	
MMU IDE board	2	2	2	2	2	
CHIF board	2	2	2	2	2	
ASIC CHIF board	2	2	2	2	2	
SUP board	2	2	2	2	2	
SICX board	2	2	2	2	2	
SLS board	2	2	2	2	2	
SIC8 board	2	4	4	6	6	
CELI board	2	4	3	6	2	
PCM2 board	0	2	4	3	5	
MSIB board	4	4	4	4	4	
SWE8 board	2	2	2	2	2	
MUX board	1	1	1	1	1	
SWi16 board	2	2	2	2	2	
FR31 CONF	2	3	4	4	5	
FR31 LC	0	0	0	0	0	Available as an option
CONV 5V/100A	2	2	2	2	2	
CONV 5V/12A	8	8	8	8	8	

Options to be ordered separately

Reference	Description	Notes
MC9670 OPT FRLC G2	FR31LC board for 12 LCT accesses	2 boards can be ordered by switch

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