

M9671 XX R G2 Redundant Secondary Switch



M9671 SB R G2 = 6/2/1/2

M9671 SE R G2 = 14/4/2/3

M9671 ME R G2 = 14/3/4/4

M9671 SP R G2 = 22/6/3/4

M9671 MP R G2 = 22/2/5/5

System functions :

- ✓ M9600 infrastructure equipment interconnection function (radio base station and other switches):
 - ✓ switching,
 - ✓ routing,
 - ✓ call processing (voice and data transmission).
- ✓ Control & supervision of M9600 infrastructure.
- ✓ 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,
- ✓ Terminal mobility management.

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.

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

M9671 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,SW, BS...), CELI boards (depends of number of cells connected: BS, µBS, LAG...), PCM2 boards (depends of number of switches connected:SSW, MSW...) and CONF boards (depends of number of communications needed).

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M9671 MP R G2 = 22/2/5/5

List of MSW components	M9671 SB R G2	M9671 SE R G2	M9671 ME R 2G	M9671 SP R G2	M9671 MP R G2	Notes
Cabinet	1	1	1	1	1	
CPU IE board	2	2	2	2	2	
SUP board	2	2	2	2	2	
SIC8 board	2	4	4	6	6	
CELI board	2	4	3	6	2	
PCM2 board	1	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