SATEL® MR-1000

Self-controlled hot standby redundant master

SATEL MR-1000 redundant master is designed for enhanced reliability in critical VHF / UHF radio modem networks. SATEL MR-1000 features an automatic redundant controller with two radio transmitters and up to four receivers (depending on configuration) operating in hot standby redundant mode.

The redundant configuration of MR-1000 secures the communication even if a failure occurs in one of the transceivers or power supplies. Redundancy combined with the SATEL radio modem MTBF of more than 60 years provides utmost communication system reliability.

The SATEL MR-1000 redundant master supports full remotely manageable network diagnostic and configuration functionalities via SATEL NMS.

MR-1000 features:

- Hot standby automatic transceiver switch over
- Redundant power supplies and cooling system
- Modular design with swappable radio and power supply units
- Ethernet / RS-232 interfaces (depending on configuration)
- Dry alarm contacts
- Front panel status indicators
- Network management (SATEL NMS)
- Diversity reception (depending on configuration)





Wireless World - Local Solution

MR-1000 technical specifications:

Ethernet interface connectors: RJ45

Data speed of Ethernet interface: 100 Mbps (TCP/IP)

RS interface connectors: D9, female

Data speed of RS interface:

Data speed of radio interface:

Dependent on SATEL radio modems used

Dependent on SATEL radio modems used

Dry contacts for power supply / cooling failure

Redundant switch over mode: Auto

Manual (local / remote)
Redundant switch over time: 30 ms (for all modes)

Operating voltage range: 36-75 VDC

Temperature range: $+5 \dots +55$ °C (operational) $-40 \dots +80$ °C (storage)

Antenna connectors: N female (50 ohm)

Construction: Metal framed rack assembly

Size H x W x D: 127 mm x 357 mm x 435 mm (19" rack mounting)
Weight: 7.5 ... 10 kg (dependent on SATEL radio modems used)

SATEL radio modems available for MR-1000 installation / Technical specifications:

	SATELLINE-3AS VHF	SATELLINE-3AS NMS	SATELLINE-3AS Epic NMS
Frequency range	135 174 / 218238 MHz	330 470 MHz	330 470 MHz
Tuning range	135 155 / 138 160 / 155 174 / 218 238 MHz	+/- 2 MHz from central frequency	+/- 2 MHz from central frequency
Channel spacing	12.5 / 25 kHz fixed	12.5 / 20 / 25 kHz fixed	12.5 / 20 / 25 kHz
Carrier power	0.1, 0.5, 1 and 5 W / 50 ohm	0.01 1 W / 50 ohm	1, 2, 5 and 10 W / 50 ohm
NMS	Yes	Yes	Yes
Diversity	-	-	Space diversity



Please ask for more information from your local SATEL distributor.

Manufacturer:



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