Meinberg Radio Clocks
Lange Wand 9
31812 Bad Pyrmont, Germany
Phone: +49 (5281) 9309-0
Fax: +49 (5281) 9309-30
https://www.meinbergglobal.com
info@meinberg.de

IMS-RSC: Switch Module for Seamless Switchover of Backplane Signals

This product is only compatible with Meinberg's line of modular **IMS LANTIME** systems.
Visit the [1]IMS Information Page to learn more. This module is required for redundant clock module configurations and switches the synchronization signals from the selected clock module to the IMS backplane (most I/O modules use these backplane signals to generate their output signals). A new feature offers a phase neutral switchover for LIU output cards, avoiding phase jumps for telecommunication signals (E1/T1). The RSC can be configured to automatically switch between the two clock modules based on their status but it is also possible to manually select the clock module using the selection switches.

Key Features

- Switchcard as a central module used in redundant GNSS based time synchronisation systems
- Switches signal outputs automatically between two satellite receivers
- Automatic switching can be disabled (manual override)
- Remote management and monitoring of the switchcard is possible over the network
- Supported networking protocols: IPv4, SNMP, TELNET, GPSMON32
- Allows configuration and status queries via network (TCP/IP) either via SNMP or special software (GPSMON32)
- Supports SNMP requests as well as SNMP Traps (alarm messages for defined events, e.g. NOT SYNC or ANTENNA FAULTY)

Description

The RSC- Redundant Switch Control card controls the switchover of the reference clock in redundant systems with two receiver units. The RSC is used to switchover the pulse and frequency outputs and the serial interfaces between the available receivers. The controls of the module allow the selection of different modes in which the RSC operates. The status LEDs indicate which receiver is selected as a master clock and the current operating state of the switching module.

Characteristics

Status Indicators	**Four Status LEDs** * LED Init: Lights up in blue during initialization and turns off after booting. * LED Remote: Lights red, if the remote function was activated via the network, otherwise the LED is off. * LED CLK1 / CLK2: These LEDs show the current switching state of the board. Both LEDs are turned off if the boards outputs are deactivated.
Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Warranty	Three-year warranty
RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

Manual

The English manual is available as a PDF file: [2]Download (PDF)

Links:

[1] https://www.meinbergglobal.com/english/products/modular-sync-system.htm
[2] https://www.meinbergglobal.com/download/docs/manuals/english/setup-guide-rsc180.pdf