



Meinberg Funkuhren

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 - XHERb: External Holdover Expansion

PRS10 Rubidium Oscillator

The Meinberg XHERb chassis adds superior holdover performance to the Meinberg IMS time and frequency systems. It contains either one or two PRS10 Rubidium modules from Stanford Research and can be eqipped with dual power supplies for each Rubidium module.

The module will be connected to the reference clock of the associated IMS chassis and the Rubidium will be steered as long as the reference clock is synchronized.

In case the reference clock loses its sync source, the XHE chassis provides the sync reference for IMS chassis based on its holdover performance.

Key Features

- XHERb unit provides holdover synchronization reference for connected IMS unit
- Holdover duration: 72 hours at stratum 1 level performance



Characteristics

14HP/3U (70mm x 128mm) 64 pin rear VG edge connector DIN 41612 ± 5E-11 (72 hrs. off then 72 hrs. on) Power Consumption Single Rubidium Module (typ.): during Warm Up ca. 80 W during Operation ca. 30 W
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2 x AC/DC Power Supply: UN = 100-240 V AC (50/60 Hz) / 110-240 V DC Umax = 90-253 V AC / 100-330 V DC or 2 x DC Power Supply: UN = 48 V DC Umax = 20-60 V DC or AC/DC DC Combination Power Supply
Aging (after 30 days): monthly: 5E-11 yearly: 5E-10
160 mm x 100 mm, 1,5 mm Epoxy
< 20 minutes (time to 1E-9)
+/- 1E-10 (-20°C65°C)
(Allan Variance) < 2E-12 (100 s)
483mm x 132mm x 275mm / Width x Height x Depth
0 40 °C
Max. 85 % (non-condensing) at 40 °C
Meinberg offers free lifetime technical support via telephone or e-mail.
Three-year warranty
This product is fully RoHS-compliant.
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: [1] Download (PDF)

Links:

 $\hbox{[1] https://www.meinbergglobal.com/download/docs/manuals/english/xhe-rb.pdf}$