# Introducing

**MEINBERG**

The Synchronization Experts.

**Founded in 1979**

- HQ in Bad Pyrmont, Northern Germany

- Entirely Focused on Synchronization

- Global NTP & PTP Technology Leader

- Consistent Track Record of Growth

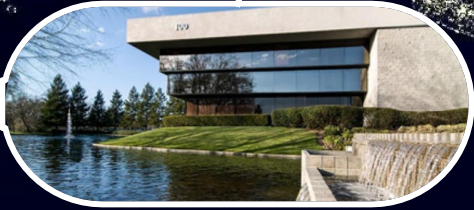# Entirely Focused On Synchronization Since 1979

**Meinberg HQ**
Bad Pyrmont, Germany
Est. 1979

**Oregano Systems**
Vienna, Austria
Est. 2001

**Meinberg USA**
Santa Rosa, CA
USA
Est. 2020

**Meinberg Asia**
Bangkok, Thailand
Est. 2024

Our Global Presence
- 4 Meinberg Offices Globally
- 55+ Partners In Different Regions Around The World
  Serving 6 Continents

MEINBERG
The Synchronization Experts.

Meinberg Serves Many Markets

Telecom

Power Grid

Data Center

Broadcast

Defense

Finance

MEINBERG
The Synchronization Experts.

M250

M320

## LANTIME NTP Server

- Synchronize all systems which support NTP or SNTP

- Highly stable internal oscillator bridges periods of interference or temporary loss of synchronization signal

- Suitable for almost any application

- MMS Monitoring/Configuration Support Available

microSync$^{HR}$

microSync$^{RX}$

## microSync-Series

- Compact and powerful IEEE 1588 PTP Grandmaster

- High performance (S)NTP server

- DIN rail, half rack and full rack solution for a space efficient design

- MMS Monitoring/Configuration Support Available

IMS-M1000

IMS-M3000

## IMS-Series

- Combines a universal Sync Core with application specific input and output interfaces

- Allows in-the-field upgrades and replacements with hot-swapping and hot-plugging support

- Almost no hardware dependencies allow uncounted combinations of interfaces and modules

- MMS Monitoring/Configuration Support Available

# Meinberg microSync RX/TRX

**Complete Solution in a Small & Economical Package**

- 4 x 1 GbE ports, 4 NTP capable, 2 PTP capable

- PRP Supported

- F.Synth (.1-10MHz), IRIG AM, Programmable Pulse Output options (various configurations available)

**microSync RX20/30 Series**

- Full rack, 1U

- Optional display

- Single or redundant power supplies

**microSync TRX Series**

- Same features as RX

- Display/Indicator LEDs on Front, I/O on Back



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# microSync XS

- Ultra Compact Footprint

- PTP/PRP Support

- PPS/10Mhz/IRIG-B Outputs from PP (SMA) outputs

- Can be used as a Grandmaster Clock, Boundary Clock or Ordinary Clock

# Meinberg Accessory Products



- **Signal Distribution Unit (SDU)** – 1:12 or 1:24 fanout of PPS, 10 Mhz, IRIG, and E1/T1 signals

- **Fiber-Optic Converter (CON)** – enables long-distance (2k or 10 km) transmission of PPS, 10 MHz, IRIG, and RS232 signals over fiber

- **SyncBox N2X** – converts NTP or PTP to IRIG, 10 MHz, PPS, DCF77, and serial time telegrams

Very popular in power grid and defense applications

# Thank You For Your Time

**MEINBERG**

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