

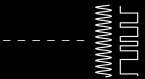
# PolaRx5 GNSS Reference Receivers



Low power



Best-in-class  
measurements



Advanced interference  
mitigation



# PolaRx: your GNSS reference

- ▶ Tracking all GNSS L-band frequencies with high-precision, low-noise measurements on GPS, GLONASS, GALILEO, BEIDOU, IRNSS, QZSS and SBAS
- ▶ Quick and easy setup and configuration via the Web UI, with full control of receiver settings and outputs
- ▶ Low and scalable power consumption
- ▶ 24 parallel data records (RINEX, BINEX and SBF)
- ▶ A unique storage integrity functionality to improve data archiving
- ▶ Best-in-class interference monitoring and mitigation



## PolaRx5

Best-in-class and reliable GNSS measurements



## PolaRx5S

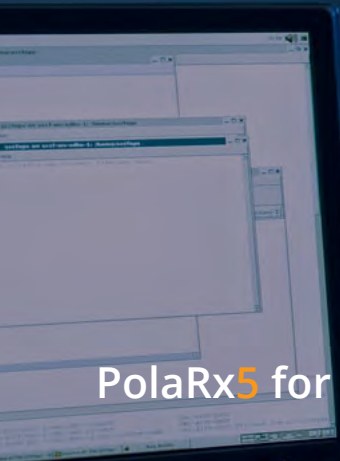
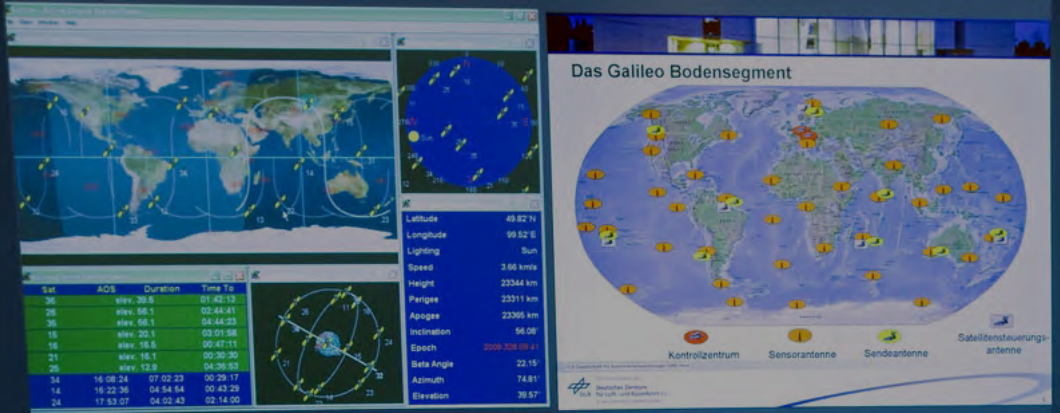
For space weather and scintillation



## PolaRx5TR

For time and frequency transfer





PolaRx5 for CORS and network operations



# Interference: AIM+ it!

Interference considerations have been at the forefront of the Polara5 product line design and incorporated into every stage of signal processing. Using AIM+ (Advanced Interference Mitigation) built-in protection against intentional and unintentional jamming based on a sophisticated system of sampling and mitigation mechanism, the Polara5 can suppress the widest variety of interferers.

Polara5 product line features 3 adaptive notch filters whose stop-band bandwidth is adjusted automatically between a notch of a few kHz to 1 MHz-wide rejection.

The notch filters are complemented by a unique wide-band adaptive filter capable of rejecting more complex types of interference such as chirp-jammers or frequency-hopping interferers from DME/TACAN devices.

The Polara5 has a built-in spectrum analyzer and the capability to visualize and log raw RF signals to detect and analyze signal anomalies, in both time and frequency domains. As with multipath mitigation, AIM+ can be deactivated.

AIM+ is a standard feature on the Polara5 product line.





PolaRx5S for scintillation and space weather



# Tailored to your GNSS needs



## PolarX5

Low and scalable power consumption  
lowest number of cycle slips  
Highest number of observations per slip



## PolarX5S

Real time output of TEC and iono  
scintillation indices  
Ultra-low noise oscillator  
100 Hz unfiltered correlation output

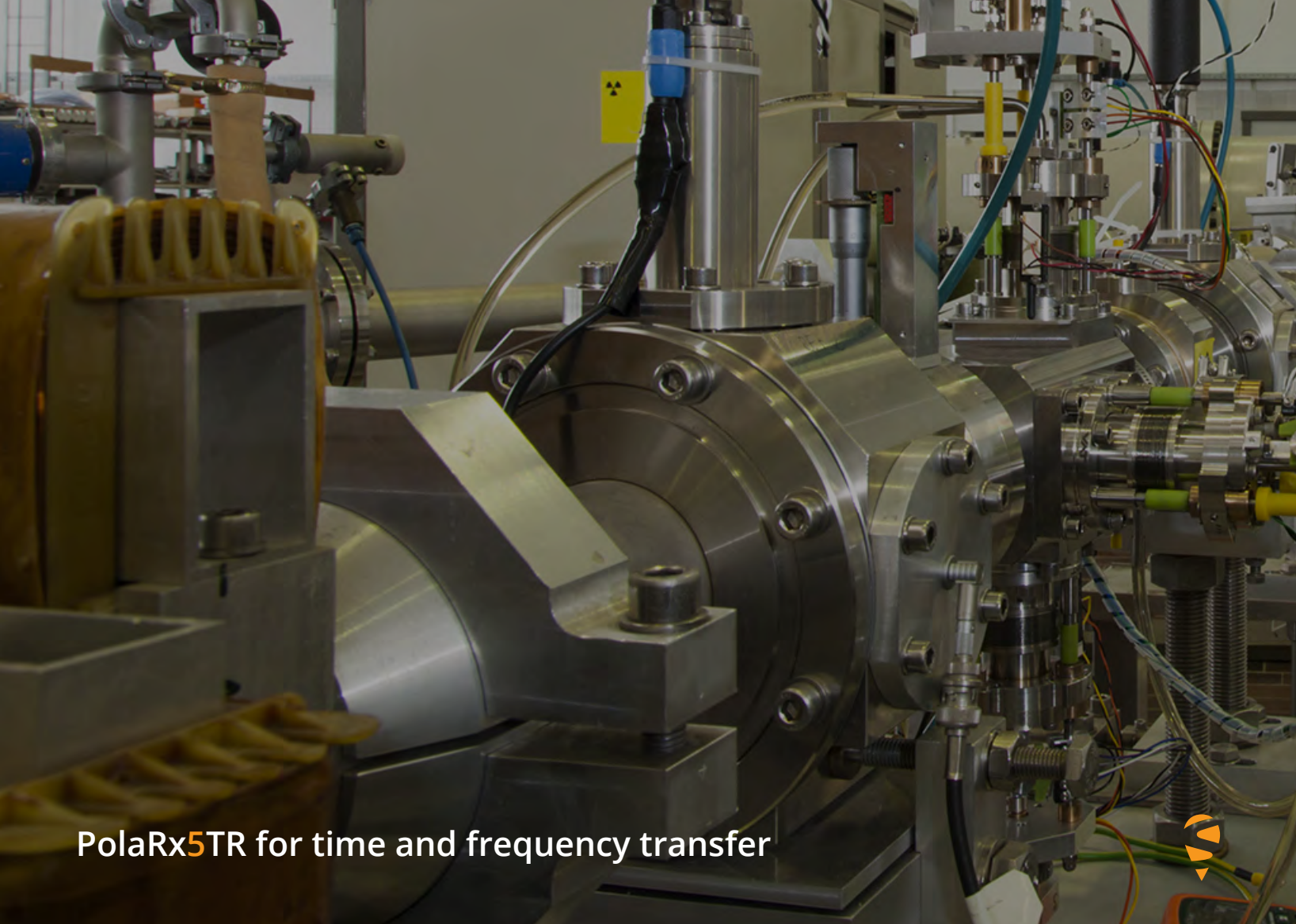


## PolarX5TR

PPS IN internal delay auto-calibration  
CGGTTS V2E  
Fully compliant with CCTF 4 and 5  
(2015) recommendations

	PolarX5	PolarX5S	PolarX5TR
REF IN	Yes	No	Yes
PPS IN	No	No	Yes
REF OUT	Yes	Yes	Yes
PPS OUT	Yes	Yes	Yes
Internal Clock	TCXO	OXCO	TCXO
PPP for Seismic	Optional	No	No
IQCorr Output	No	Yes	No
ISMR	No	Yes	No
CGGTTS	No	No	Yes





PolaRx5TR for time and frequency transfer



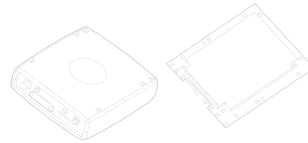


Your reference not only for reference stations



**Altus**

Surveying & GIS  
equipment



**AsteRx**

OEM & integrated  
GNSSreceivers



**Software**

GNSS software  
solutions

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