Key features:
- Up to 3 simultaneously sampled radio frequency (RF) reception chains.
- Each RF chain can be independently pre-configured to GNSS L-bands and IRNSS S-band.
- Pre-configurable bandwidth, bitwidth, sampling rate, intermediate frequency.
- Extension to up to 6 RF chains via synchronized parallel operation of two RFFE's.

Application examples:
- Development of software defined radios/receivers (SDR).
- GNSS multi-system signal analysis and comparison.
- Analysis of atmospheric effects (iono-/tropospheric irregularities and scintillation, etc.).
- Interference monitoring for protecting critical operations and infrastructures.

MGSE© Recording Unit with up to three GNSS Bands
GPS | GLONASS | Galileo | BeiDou | QZSS | IRNSS | SBAS
Performance characteristics
- GNSS signals: catch them all:
  - GPS L1, L2, L2c, L5
  - Galileo E1, E5a, E5b, E5, E6
  - GLONASS G1, G2
  - BeiDou B1, B2, B3
  - IRNSS L5, S-Band
  - QZSS
- Bandwidth: up to 68 MHz
- Intermediate frequency: zero IF
- Sampling rate: up to 81 MHz
- Bitwidth: up to 2x8 bit (complex)

Technical details
- Dimensions (L/W/H): 188/125/50 mm
- Weight: 0.8kg
- Power supply (external)
- Gain control manually or AGC
- Internal TCXO
- Super speed USB 3.0 (up to 1,296 Mbit/s)
- USB driver with application programming interface (API)
- Visualization and recording software included
- Drivers for Windows 7, Linux

Interfaces
- Active antenna support: maximum 50 mA @ 4.3 VDC
- External reference clock input
- Reference clock output
- Parallel digital data output (optional)

Configuration examples
- L5/E5/B2 | 68 MHz BW | 2x8 bit complex
- L1/E1bc | L2/L2C | L5/E5a | 18 MHz BW | 2x4 bit complex