

# SRX

GNSS SW-Defined Receiver Portfolio

2023



# Specification

## 2023

SRX Platform Type	SRX-EP (Extendable Platform)	SRX-TM (Test & Measurement)
RF Front-End	2 RF-in 4 RF bands with L- & S-band, CNO range from 30 - 60 dBHz	2 RF-in 4 RF bands, L- & S-band CNO range from 20 - 95 dBHz
Processing unit	FPGA + 4 x ARM-A53 + 2 x ARM-R5	FPGA + 4 x ARM-A53 + 2 x ARM-R5
Signal processing bandwidth	50 MHz	50 MHz
Signal channels	60 Each channel can be individually configured	120 Each channel can be individually configured
GNSS signals	Galileo E1, E5ab, E6 (with encryption) GPS L1, L2P & L2C, L5 BeiDou-2 B1I, B2I, B1C, B2a GLONASS L1, L2 IRNSS L5 + S SBAS L1 + L5 (tracking only)	Galileo E1, E5ab, E6 (with encryption), Galileo 2G GPS L1, L2P & L2C, L5 BeiDou-2 B1I, B2I GLONASS L1, L2 IRNSS L5 + S SBAS L1 + L5 (tracking only)
Signal processing	Scalar tracking, Vector tracking	Scalar tracking, Single SV mode (P/L, IOT and HGA test mode)
Code accuracy	< 2..20 cm (typical)	< 0,2..20 cm (with high CNO)
Carrier accuracy	< 1.5 mm	< 1.5 mm
TTFF (cold, warm, hot, re-acq.)	60 s, 30 s, 10 s, 2 s typical	60 s, 30 s, 10 s, 2 s typical
Navigation	PVT (0,02 - 20 Hz update rate), SBAS, DGNSS	PVT
Heading	Yes	No
Data interface	IFEN proprietary ASCII & binary, NMEA	IFEN proprietary ASCII & binary, RTCM, NMEA
Communication interfaces	Ethernet (1Gbps), USB 3.0	Ethernet (1Gbps), USB 3.0,
External connectors	10 MHz in/out, 1-pps out, 1 trigger-in	10 MHz in/out, 1-pps out, 1 trigger-in
Active antenna support	5 V / 150 mA per antenna	5 V / 150 mA
Integrated sensors	Barometer	-
Operating limits	600 m/s velocity 18.000 m height	600 m/s velocity 18.000 m height
Temperature (operating)	-40° C to +85° C	-40° C to +80° C
Board dimension	185 mm x 125 mm x 20 mm	185 mm x 140 mm x 25 mm
Power	18 - 25 W at 12V	20 - 30 W at 12VDC
Enclosure options	Compact, Standard (19" x 1U), Flex (19", x 2U)	Standard (19" x 1U), Flex (19", x 2U)
SRX with enclosure	Example 'Standard' enclosure 	Example 'Flex' enclosure (here for G2G TURN) 



Disclaimer:  
All specifications subject  
to change without prior  
notice

**For Americas**  
IFEN Inc.  
+1 415 627 0971  
sales-us@ifen.com



**For EMEA & APAC**  
IFEN GmbH  
+49 8121 2238 20  
sales@ifen.com