

SATCORE

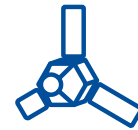
The Plug-and-Play Modem
Combining TT&C
and Payload Reception



SATELLITE TRACKING SOLUTIONS



With a growing number of Earth Observation satellites & constellations, ground segments need to **be innovative, flexible** and **cost efficient**. The Satcore is the latest Safran Data Systems' product simplifying the customer experience.



Scientific
Commercial
Satellites

Available in 4 different versions, its reduced form factor and pre-loaded configurations enable **leaner** and **remote operations**.



Small
Satellites



Service
Providers

PLUG-AND-PLAY

Straight Forward Antenna
Interface & Web-Based GUI

COST EFFECTIVE SOLUTION

TT&C Modem & High-Rate
Payload Reception in One Box

COMPACT DESIGN

2U Form Factor

CORTEX HERITAGE

Benefiting from 20+ years
of Satellite Communications
experience

DESIGNED FOR NETWORKS

Lean Operations

THE ALL-IN-ONE-BOX

AVAILABLE IN 4 DIFFERENT CONFIGURATIONS

	Wideband Payload Reception	Narrowband Command/Control
Direct	Up to 1200 Mbps	Up to 40 Mbps
Rx	Up to 1200 Mbps	-
Rx-Light	Up to 150 Mbps	-
Modem	-	Up to 40 Mbps

CAPABILITIES AT A GLANCE

Radio Signal Processing

Waveforms & Codings CCSDS and ETSI
 Telemetry Channels Up to 3
 Aggregate Data Rate Up to 1200 Mbps / DVB-S2 Up to 100 Msps
 Demodulations BPSK, QPSK, SQPSK, UQPSK, GMSK, 16APSK, 16QAM
 Equalization Filtering Static or Auto-Adaptive
 Decoding Viterbi, 4D-TCM, Reed Solomon, CCSDS LDPC 7/8 DVB-S2

Input/Output

Wideband Rx 520-1550 MHz 2xIN
 TT&C 70 MHz & 950-2400 MHz 2xIN / 1xOUT
 Data Exchange & M&C 2xGigE Interface

Tools

Web Browser GUI
 FTP Server for Data Retrieval
 Automated Scheduler
 Real-Time Constellation Display
 Real-Time Eb/No Estimator

ENVIRONMENT

Chassis Size 2U
 Chassis Weight 18 kg / 40 lb
 Operating Temperature 10°C to +40°C / +50°F to +104°F
 Power Supply Redundant

SUPPORTED PRE-LOADED MISSIONS

Commercial Payloads

- ▶ Spot series
- ▶ Pléiades series
- ▶ TerraSAR-X series
- ▶ Worldview series
- ▶ GeoEye series
- ▶ MDA Radarsat series
- ▶ SII KompSat series
- ▶ Deimos series
- ▶ RapidEye series

Radarsat series

Scientific Payloads

- ▶ Landsat series
- ▶ Sentinel series
- ▶ EOS series (Aqua Aura Terra)
- ▶ Suomi-NPP
- ▶ JPSS
- ▶ Feng Yung series

Is Yours Missing? Contact us and we will add it for you!

SUPPORTED PRE-LOADED TX

L3-Com

- ▶ XBTX
- ▶ KaM

ST-Electronics

- ▶ PDT5
- ▶ PDT300

Space Micro

- ▶ XTx-100
- ▶ XTx-200
- ▶ XKaTx-300

Syrlinks

- ▶ EWC-27
- ▶ EWC-28
- ▶ EWC-30

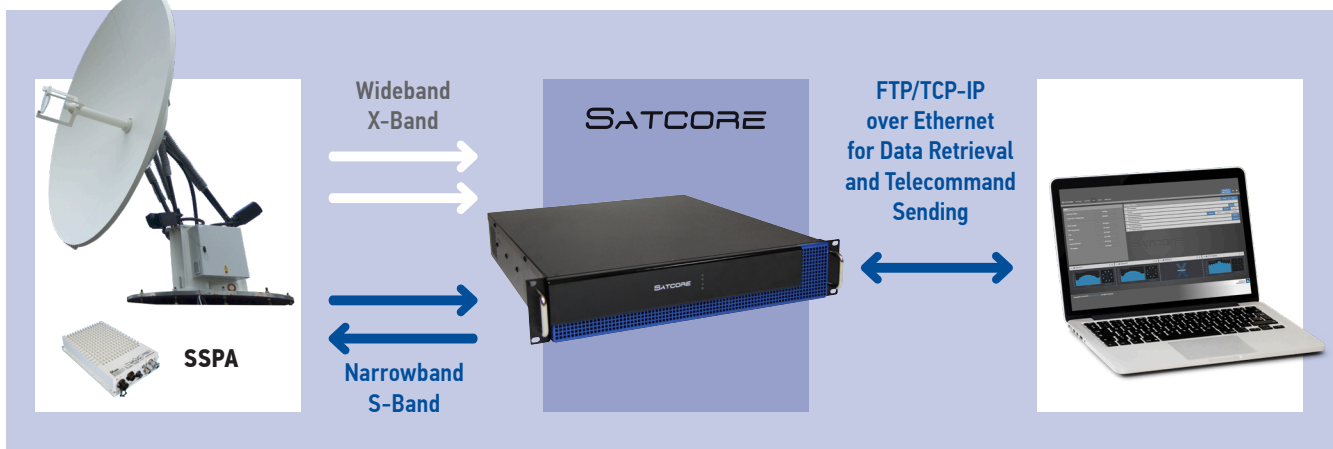
SSTL

- ▶ XTx-105
- ▶ XTx-400

Tesat

- ▶ X-Band QPSK
- ▶ 8PSK Ka-Band QPSK

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