



**remos**

Ramos Space Systems AB

# DATASHEET HASTEN MODEM

Hasten introduces an advanced transceiver designed uniquely to address the intricate requirements of satellite ground operations.



## CAPABILITIES

The breadth of its capabilities is extensive, covering multifaceted mission support, streamlined mission scheduling, and the seamless integration of antenna instrumentation.

**BOOK A DEMO**

[info@remospace.com](mailto:info@remospace.com)

[www.remospace.com](http://www.remospace.com)

## Compatibility with various ACUS solutions



CPU



Orbit



SPID



M2

This device has been meticulously engineered to provide robust support for high-rate TT&C (Telemetry, Tracking, and Command) as well as Earth observation activities.



# HASTEN MODEM SPECIFICATIONS

## TELEMETRY

<b>Frequency Bands</b>	40MHz to 2.5GHz
<b>Data Rate</b>	Up to 40 Msps
<b>Modulations</b>	BPSK, QPSK, oQPSK, GMSK, PCM/PM, PCM/PSK/PM, PCM/FM
<b>Doppler Correction</b>	Automatic or External
<b>Line Codes</b>	NRZ-L/M/S and BP (Manchester)- L/M/S
<b>FEC Codes</b>	CCSDS Convolutional, Reed-Solomon, Concatenated, LDPC C2, Scrambler, Multi-state CADU
<b>Packet formats</b>	CCSDS CADU

## ENVIRONMENT

<b>Chassis size</b>	4U
<b>Chassis Dimensions</b>	(h/w/d) 177x482x555mm
<b>Chassi Weight</b>	16 kg
<b>RF Connection</b>	SMA Female
<b>Operating Temperature</b>	10 to 40C
<b>Mouse,Keyboard, Screen</b>	Integrated

## TELECOMMAND

<b>Frequency Bands</b>	40MHz to 2.5GHz
<b>Data Rate</b>	Up to 2 Mbps
<b>Modulations</b>	BPSK, QPSK, oQPSK, GMSK, PCM/PM, PCM/PSK/PM, PCM/FM
<b>Doppler Correction</b>	Automatic or External
<b>Line Codes</b>	NRZ-L/M/S and BP (Manchester)- L/M/S
<b>FEC Codes</b>	CCSDS BCH, Short-LDPC
<b>Packet formats</b>	CCSDS CLTU

## TOOLS

Mission booking and tracking
BER/FER Performance Tools
Local TT&C Client
Spectrum Analyzer
TM/TC Simulator
Rotor control (SPID, Yaesu, M2, Prosisstel, Custom rotor upon request)

## HIGH DATA-RATE DOWNLOAD

<b>Input IF</b>	950-2150 MHz
<b>Data Rate</b>	Up to 425 Mbps
<b>Modulation and FEC</b>	DBV-S2(x)

## INTERFACE

GUI
TCP/IP
REST API
FTP