



### **About NovelSat**

Founded in 2007, NovelSat is a world leader in satellite communication technology. Its field-proven satellite communications platforms deliver unsurpassed spectral efficiency, transfer speeds and high-end features to businesses of all sizes who rely on satellite communications for data transmission and broadcasting. NovelSat solutions are deployed at thousands of sites in over 150 countries.

The NovelSat product portfolio includes satellite modems, modulators and demodulators. All support DVB-S, DVB-S2 and DVB-S2X industry standards while offering further efficiency and bandwidth savings utilizing the NovelSat NS4™ waveform and NovelSat DUET™ CeC™ (Carrier Echo Cancellation) technologies. NovelSat technologies deliver the satellite industry's most compelling ROI and the most scalable transmission solutions from 64Kbps to 850Mbps on a single modem.

# NovelSat Technology

NovelSat products are designed around a high performance software-defined architecture. All NovelSat modems, modulators and demodulators are 'Hardware-Ready Platforms' that enable software scalability.

## **NovelSat Advantages**

- Supports DVB-S/S2/S2X communication standards
- Wide offering of software efficiency packages:
  - NovelSat NS4 advanced waveform Up to 45% efficiency gain compared with DVB-S2. The only waveform to offer 2% Roll-off.
  - NovelSat NS3 technology typically delivers 30% more efficiency than DVB-S2
  - DVB-S/S2 with 5% Roll-off Up to 28% capacity boost or up to 20% bandwidth savings while maintaining DVB-S/S2v backward compatibility
  - ° Embedded WAN acceleration (TCP, Header and Payload compression & optimization)
- NovelSat DUET CeC Capacity boost of up to 100% for bidirectional modem traffic
- NovelNet NMS Bandwidth efficiency optimizer and automated network management platform
- Powerful RF Interference Mitigation software package
- NovelSat FreeBand Free upstream satellite contribution over existing distribution bandwidth

## NovelSat Professional Satellite Modem Series



### NovelSat NS3000 Professional High-Data Rate Satellite Modem — Up to 2x425Mbps, Industry leader



### NovelSat NS300X IP Satellite Modem — Up to 2x30Mbps

- Highest performance and efficiency at all data rates
- The most complete feature set: ACM, AUPC, QOS, Packet Compression and TCP acceleration
- Highest efficiency in the market: Up to 64APSK, NovelSat DUET CeC, DDC...
- Feature-rich IP processing enhancements
- Point-To-Point and Point-to-Multipoint link support

# NovelSat Satellite Modulators & Demodulators



### NovelSat NS1000 Satellite Modulator NovelSat NS2000 Satellite Demodulator

- Up to 80MSPS symbol rate
- The most complete feature set: ACM, AUPC, DDC...

- Dual channel Combined Ethernet & ASI streaming
- TS Over IP Support



#### NovelSat NS200X Multi-Rx Satellite Demodulator

- Up to 24 DVB-S2 demodulators in a single 1U box
- Up to 4 Conditional Access Modules (CAMs) to encrypt multiple TV channels

Waveforms	Efficiency Enhancements
DVB-S/S2 DVB-S/S2 with 5% ROF DVB-DSNG, DVB-CID DVB-S2X NovelSat NS3/NS4	NovelSat DUET CeC ACM AUPC Dynamic Distortion Compensator
Modulations	IP Processing Enhancements
QPSK 8PSK 16APSK 32APSK 64APSK	Advanced QoS VLAN switching NSPE™ IP Encapsulation IP Transparent Bridging Layer 3 Routing WAN Acceleration & Optimization



# NovelNet Network Management System

- Full-featvured management and provisioning
- DBA (Dynamic Bandwidth Allocation)
- DPM (Dynamic Power Management)
- Protcaster Digital Rights Management (DRM), Entitlement, Scheduler



For more information about NovelSat and the most scalable, resilient high-efficiency satellite communication solutions, contact us.

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