NovelSat **NS200X Multi-Rx Satellite Demodulator**
With Optional DVB-S/2-to-IP Descrambler

The NovelSat NS200X is a modular multi-Rx channel satellite demodulator designed to meet the needs of satellite broadcasters and data providers of all sizes. With up to three plug-in modules, it can contain up to 24 demodulators in a single 1U box, which can dramatically reduce rack space and maintenance resources.

For Broadcasters, the NS200X can also scale to support up to four Conditional Access Modules (CAMs), to decrypt multiple encrypted TV channels. The NS200X is capable of concatenating with additional NS200X units to support many more than 24 remotes at a Hub site.
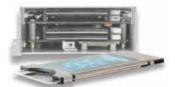
A member of the NovelSat line of Professional Satellite Communication solutions, the NS200X has full interoperability with all other NovelSat products (Modulator, Demodulator, Modems and NMS). It is controlled and configured through an easy-to-use browser-based interface and can be monitored and updated over the air.

NS200X optional modules

NovelSat NS201X Module – Head-end controller for NS200X modules

· For comprehensive system management of the NS200X signal converters
· Provides many functions for configuring and servicing the NS200X

NovelSat NS207X Module - IP-to-IP Descrambler (CAM)

· 4 CI-slots; independent / cascadable
· 4 transport streams
· Multi-service descrambling
· Decryption Level: Service based, PID based

NovelSat NS208X Module – DVB-S2-to-IP Streamer

· Processes 8 DVB-S2 signals into IP multicast groups (8 MPTS, 504 SPTS)
· 16APSK and 32APSK support
· Tuners with DiSEqC control
· Up to 24 streams per rack unit (NS200X)

NovelSat NS200X Specifications

NS207X Module: IP-to-IP Descrambler (CAM)

Network Interfaces

Interface Type	100FD/1000Base-T Ethernet IEEE 802.3
Protocols	IP v4, ARP, UDP, RTP, ICMP, IGMPv2
Connectors	2 x 8p8C "RJ-45" (redundant)
TS Receivers	4 x (unicast/multicast)
TS Transmitters	4 x (unicast/multicast)

CI Interfaces

CI slots	4 x (front access)
Supported CAMs	Alphacrypt, Aston Conax, Dreamcrypt, Entavio CAM, GkWare BISS CAM, Homecast CAM, ICECrypt, Ideto Access, Kid CAM, Mascom Cryptoworks, Matrix CAM, Mediaguard Canal Digitaal, Nagravision, Oasis CAM, PCMCIA CAM, Premiere, Worldcam, T-Rex Twin Module, TechniCam Beta2, Technicrypt, TPS, Reality CAM, SMiT, Universal CAM, Viaccess, Videoguard CAM, Zetacam Blue (others upon request)
Connectors	4 x PCMCIA

Transportation

TS encapsulation	UDP/IP, RTP/UDP/IP, FEC
TS type	MPTS
TS functionality	Receiver, decode, and transmit up to 4 MPTS via IP

Control and Management

Interface Type	100FD/1000Base-T Ethernet IEEE 802.3
Features	Element control via HTTP/Web-GUI, SNMP traps for integration with network management systems (NMS), software update via FTP or TFTP
Protocols	IP v4, ARP, UDP, TCP, ICMP, HTTP, SNMP v2c, FTP, TFTP, DNS, DHCP, SNTP
Connectors	2 x 8P8C "RJ-45" (redundant)

NS208X Module: DVB-S2-to-IP Streamer

I/O

Number of DVB-S2 input signals	4
Number of DVB-S2 transponders	8
Number of IP output streams	8MPTS, 504 SPTS

Interfaces

Management	2 x 100 Base-T Ethernet (RJ 45)
Data	2 x 1000 Base-T Ethernet (RJ 45)
Protocols	IEEE802.3 Ethernet, RTP, ARP, IPv4, TCP/UDP, HTTP, SNTP, IGMPv3

Transport Stream Encapsulation

Protocols	UDP, UDP / RTP, 1-7 packets, FEC
Packet length (Bytes)	188 / 204

DVB-S Demodulator

DVB-S modulation	QPSK; 8PSK; 16APSK; 32APSK
Input frequency range	950 – 2150 MHz
Input level	40 – 80 dBµV
SAT-IF input	75 Ω, F-jack
Reflection loss [dB]	≥ 10
Input symbol rate	Max. 45,0 MSPS
DVB-S Roll-off-factors	5%, 20%, 25%, 35%
DVB-S LDPC	1/2; 1/3; 2/3; 2/5; 3/5; 4/5; 5/6; 8/9; 9/10
Viterbi decoding (DVB standard)	1/2; 2/3; 3/4; 5/6; 7/8; auto/manual
DiSEqC Control	YES

RF Inputs

Connectors	75Ω, 1 x F-jack

Additional Information

Input voltage	VAC 110-240 ~ +/- 10% AC (50 / 60 Hz)
Input power consumption (W/VA)	One power supply, Three modules: 122.2 / 134.2
	Two power supplies, Three modules: 140.2 / 157.5
Power consumption	24.3W
Dimensions	1U(H), 19"(W)

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