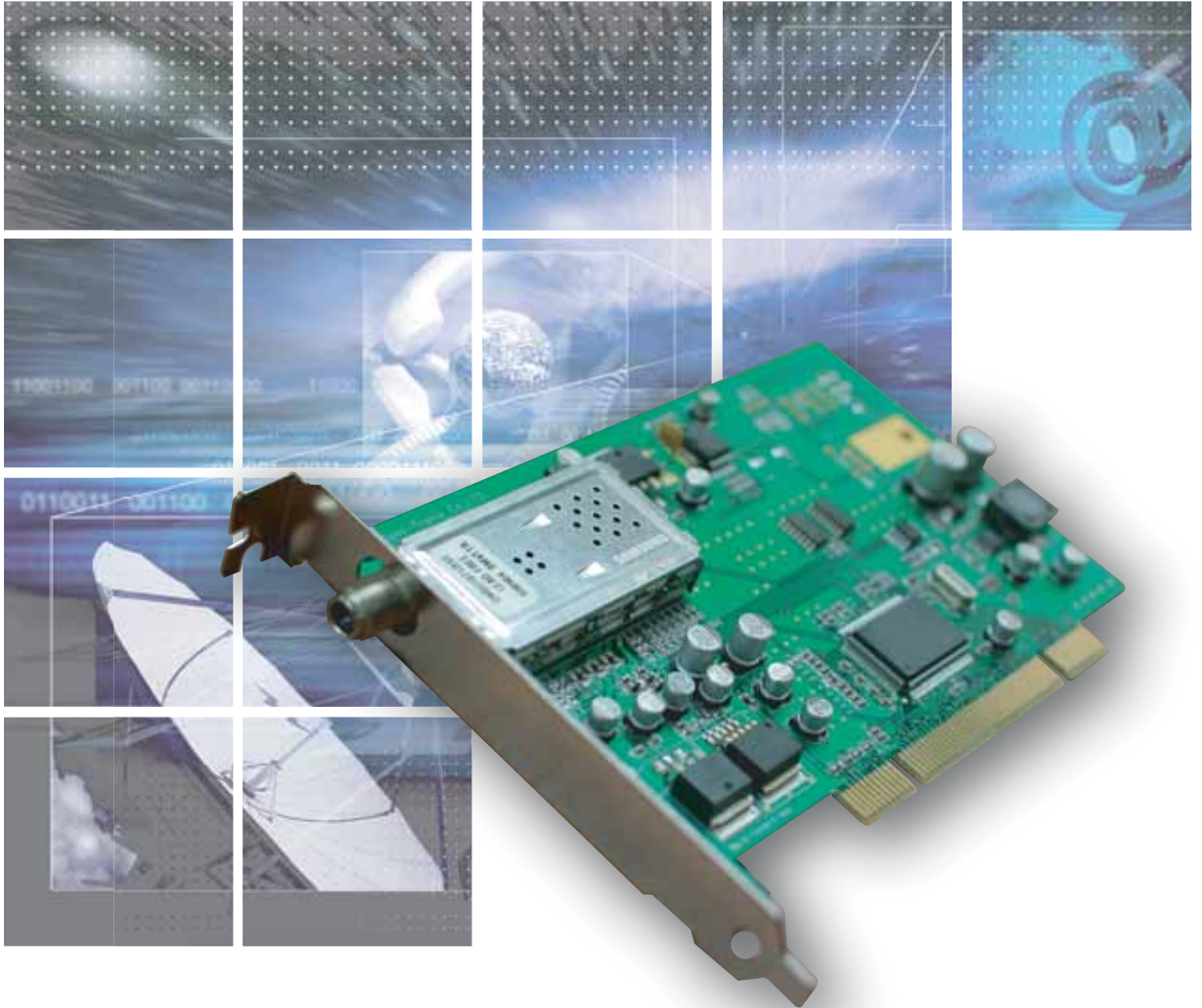




Satellite Internet PC Card

(Model: Nano@VALUE2)



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Nano_Value2 is fully DVB-S, DVB-S2 compliant cost effective PCI satellite receiver card and provide up to 40Mbps IP filtering performance and high quality MPEG2-TS decoding using high performance bus master DMA mode. Nano_Value2 PCI satellite receiver card can enable high performance DVB-IP handling applications such as DVB-IP router, high speed file delivery, and high speed satellite internet etc.

Nano_Value2 PCI satellite receiver card provides TIS, UDLR protocol driver for high performance satellite internet service.

Nano_Value2 has been reinforced with supporting MPEG Audio Decoding on MPEG-4 AAC-LC, MPEG-2 Layer 3, as well as security support of DVB CSA (Common Scrambling Algorithm) on CAT/PMT/EMMs/ECMs and public key encryption of CW, in addition to symmetric key algorithm 128 bit AES

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Standard DVB Support			
Standard DVB Support	Support		
MPEG2: ISO/IEC 13818-6	Support		
ISO/IEC 13818-2	Support		
ISO/IEC 13818-3	Support		
DVB-Data: ETSI EN 301 192 V1.4.2	Support		
DVB-Data: ETSI EN 302 307 V1.2.1	Support		
RF Tuner			
Input Signal Level (Channel power)	-65 to -25 Bm		
Dynamic Range	40 dB Typical		
L-band Receiving Frequency Range	950-2150 MHz		
External Connectors	F Type Female		
Nominal Input Impedance	75 Ohm		
RF Filter Bandwidth	Direct Conversion Tuner		
RF Input Return Loss	6 dB		
L/O Leakage at RF Input	-80 dBm, Max -63 dBm		
IF Frequency	Direct Conversion Tuner		
IF Bandwidth	Direct Conversion Tuner		
SCPC / MCPC	Yes, both		
Image Rejection	40 dBc		
Phase Noise	-87 dBc @10kHz Typical		
Noise Figure	6-12 dB		
LNB Power and Switching			
Supply Voltage (LNB polarity)	11/15 V		
Maximum LNB Current	400 mA with short circuit and surge protection		
Antenna Control Signal	22 kHz tone Max		
DiSEqC	2.0		
Short Circuit Protection	Yes		
Other Relevant Information	Software Controlled Power		
DVB-S Demodulation			
Symbol Rates	1-45 Msps		
Filtering	Half Nyquist Baseband Filter		
Inner Code Type	Viterbi		
Inner Code Rate for QPSK	1/2, 2/3, 3/4, 5/6, 7/8		
Outer Code Type & Rate	Reed-Solomon (204, 188, T=8)		
DVB-S2 Demodulation			
Symbol Rates	1-45 Msps		
Filtering	Half Nyquist Baseband Filter		
Inner Code Type	LDPC		
Inner Code Rate for QPSK	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10		
Inner Code Rate for 8PSK	3/5, 2/3, 3/4, 5/6, 8/9, 9/10		
Outer Code	BCH		
Tuner Status			
Signal Strength	Yes		
Signal Lock	Yes		
Uncorrected Blocks	Yes		
Data Rate			
Aggregate Throughput	40 Mbps		
No of Simultaneous Stream	32 PIDs		
Demultiplexing			
Maximum Input Rate	100 Mbps		
Maximum No. Data Stream	33+		
Maximum No. Section Filters	33+		
No. Sections per Packet	Unlimited		
Environment			
Windows 2000 Pro / Server	Yes		
Windows XP	Yes		
Linux	Yes		
Software Compatibilities			
UDP/TCP/IP Protocol	Yes		
PSI/SI Private Tables	Yes		
LLC SNAP/Null Encapsulation	Yes		
Multiple Application Support	Yes		
In-band Signaling Capability	Yes		
Hardware Compatibilities			
Multiprotocol Encapsulation (MPE) Compliant	Yes		
Datagram and Section Packing	Yes		
ECM, EMM to the Bus	Yes		
PES and TS Data Filtering	Yes		
Unicast/Multicast Filtering	Yes		
No. MAC Addresses Filters	33		
No. PID Filters	39		
No. Section Filters	33		
Intel Chipset (810 to 815) Compatibilities	All		
Maximum No. of Mac Addresses per PID	Unlimited		
MPEG Video Decoding			
Support MPEG-2 Video MP@ML Syntax	Yes		
GOP Structure Support I, P and B	Yes		
Video Bit Rate Range	Unlimited		
Resolution for TV and VGA(mm)	800 X 600 X 256		
MPEG Audio Decoding			
Audio Bit Rate Range	Unlimited		
Audio Encoding Types	MPEG-4 AAC-LC, MPEG-2 Layer 3		
Security			
Support DVB CSA (Common Scrambling Algorithm)	CAT/PMT/EMMs/ECMs		
Support Public key encryption of CW Symmetric key algorithm	Yes		
	128 bit AES		
Physical / Environmental			
PCI Interface protocol	PCI 104		
Size(mm)	130 X 80 mm		
Operating Temperature	-20 to 50 C°		
Storage Temperature	-35 to 70 C°		
Operating Humidity	0-90 %		
Weight	3.295 oz.		
MTBF	20,000 hours		

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