



Satellite Internet Routing Receiver for Multi-Users

(Model: Nano@OFFICE2)



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Nano@OFFICE2 satellite routing receiver is fully DVB-S2, DVB-S compliant.

Nano@OFFICE2 satellite routing receiver provides routing capability for TCP/IP, designed to deliver multicast and unicast routing services for corporation, SOHO and individual users.

Nano@OFFICE2 offers easy installation, configuration and stable operation using embedded architecture demanded by network administrators.

Nano@OFFICE2 satellite routing receiver is designed to deliver DVB-IP video, audio and data to cooperate network providers, contents providers and Kiosk application. In addition, this satellite routing receiver, DVB-S2 receiver increases satellite efficiency and utilization with bandwidth savings of up to 30% as compared to traditional DVB-S. Nano@OFFICE2 also includes built-in management features that enable remote login and control through telnet connection.

Satellite Internet Routing Receiver



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Tuner

Input Connector : F-type
Input Impedance : 75 Ohm
Input Frequency : 950~2150MHz
Input level : -65 ~ -25 dBm

Demodulation type and FEC

Symbol rate : 1~45 Msps
QPSK 8PSK filter : Half Nyquist Baseband Filter
Roll off factor : 0.35 for DVB and 0.2 for DSS,
0.35, 0.25, 0.2 for DVB-S2

FEC decoding

DVB-S2

Inner Code : LDPC
Rate : QPSK = 1/2, 3/5, 2/3, 3/4, 4/5,
5/6, 8/9, 9/10
8PSK = 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

Outer Code

DVB-S

Inner Code : Viterbi
Rate : QPSK = 1/2, 3/5, 2/3, 3/4, 4/5,
5/6, 8/9, 9/10

Outer Code : Reed Solomon (204, 188, T=8)

LNB control

LNB supply voltage : 13 or 18V
DISEqC : 2.0
Antenna and LNB control : 22KHz tone Max
LNB supply current : 400 mA with short circuit
and surge protection

Interface

Interface : 10/100 BASE-T

S/W and H/W capabilities

Remote S/W upgrade
Telnet connection for satellite parameter setting
Easy to install
Unicast and multicast routing
IGMP for multicast service
Unicast and Multicast MAC filtering
IEEE 802.3, IEEE 802.3u
LLC SNAP
Multiprotocol Encapsulation (MPE)
PES and TS filtering
RFC1112 compliant
PID filters for data stream
16 PIDs simultaneous filtering
Automatic channel parsing
ETSI 302.307 compliant
Save satellite parameter into internal EEPROM

CPU

32 bit RISC ARM7 processor

Memory

Flash : 512K bytes of program
memory
Main Memory : 8M bytes

Internal Operating System

PSOS

Demultiplexing

Max. no. section filtering : 32 PIDs
Engine : RISC engine
Buffer memory : 2 Mbyte
DVB descrambler : Software DVB
descrambler
Streams capture : PES and TS
Data rate : 40 Mbps
Syntax Error : CRC or Parity

Status monitoring

Real time data transfer rate
Antenna signal strength
Signal lock status
Display current channel name

Environment

Operating temperature : 0 to 50°C
Storage temperature : -20 to 70°C
Humidity(Operating) : 0% to 90%

Dimension

130 X 190 X 40mm

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