

# Operational Description

---

## Digital Satellite Receiver (I PRO 2000)

### General Specification

#### 1) SYSTEM CAPACITY

Fully MPEG2, DVB complaint

#### 2) DEMODULATION

QPSK demodulation and FEC decoding

in accordance with DVB prETS 300 421

Symbol rate (Rs)  $2 < R_s < 45$  Mbaud

#### 3) VIDEO DECODER

MPEG-2 Main Profile @ Main Level With Letter Box filter

Data rate up to 15Mbits/s

Video Formats 4:3, 16:9

#### 4) AUDIO DECODER

MPEG-1 layer I and II, Musicam

Stereo Channel, Dual Mono, Joint Stereo Channel, Mono

Spdif with AC-3

#### 5) PROCESSOR RESSOURCES

Microprocessor STi5100 AUC(STM)

SDRAM Memory 64Mbyte (DDR-RAM, 133MHz)

Flash memory 8Mbyte (4Mbit x16)

#### 6) LNB INPUT

Input Frequency 950 to 2150 Mhz

Digital signal input level -65 to -25 dBm

LNB supply  $13.5 \pm 0.5V$  /  $18.5 \pm 0.7V$ , max.750mA

Band switch control 22KHz (Microprocessor control)

Connector 2 x F-Type, 3/8-32UNEF-2A (1 Input / 1 Loop through)

## Operational Description

---

### 7) Component Outputs (YUV)

Connector type : 3 x RCA (Y Pb Pr)

Output impedance 75Ω unbalanced

### 8) S-VHS Output

Video format Y,C

Output impedance 75Ω unbalanced

### 9) AUDIO OUTPUT

Connector type 2 x RCA (Left and Right)

Output impedance 600Ω unbalanced

### 10) Digital Audio Output

Connector type 1 x Optic

Output type Spdif encoded signals with ac-3

Sampling frequency rate 32 , 44.1 or 48khz

### 11) RF MODULATOR

RF Output Signal NTSC M

Video Carrier Frequency	61.25 ± 90 kHz	US 3 CH
	67.25 ± 90 kHz	US 4 CH

### 12) RS232 SERIAL DATA PORT

Connector 9 pin DB9(M)

Data protocol RS232C interface

### 13) USB

USB 2.0 interface

Connector type A type

### 14) ETHERNET

Connector type RJ45

IEEE 802.3 / 802.3u standards

10 BASE-T and 100 BASE - TX support

## Operational Description

---

### 15) POWER SUPPLY

Type Switching mode

Main input voltage 90 - 250V AC @ 50Hz/60Hz±5%

Nominal power consumption 40W

### 16) CONNECTORS

1 LNB Input / 1 Loop through output (2F-type)

2 x Audio L/R (RCA)

1 x Video SIGNAL (RCA)

3 x YUV (RCA)

1 x RS-232 (9-pin D-sub male)

1 x RF Modulator (2F-type : IEC169-24)

1 x S-VHS (4-pin Mini-Din)

1 x Digital Audio Output (optic)

1x USB A-type

1x R J45 Type Ethernet

1 x AC Power Switch