



Description : Embedded CAS & MHP, Front panel Design : 320mm

### 1. Tuner & Channel

Frequency Range	950MHz to 2150MHz
Input Impedance	75 ohms nominal
Input Signal Level	-25dBm ~ -65dBm for each channel
Bandwidth	36MHz typical
Waveform	QAM: 16, 32, 64, 128, 256
Symbol Rate	2 ~ 45Ms/s
Input Connector	1 x F type with loop through
Center Frequency	480MHz

### 2. MPEG Transport Stream A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818-1 Transport Stream Specification
Profile & Level#	MPEG-2 MP@ML
Input T/S Data Rate#	80Mb/s Max.
Aspect Ratio#	4:3, 16:9 with Pan vector
Video Resolution#	720 x 576 (PAL)
Video Frame#	25 Frames per second (PAL)
Audio Decoding#	MPEG-1 Audio Layer 1, Layer 2
Audio Mode#	Stereo, Dual Channel, Joint Stereo, Mono
Audio Sampling Rate	32, 44.1 and 48KHz

### 3. CPU & Memory

CPU	IBM39STB02500 (350MIPS)
RTOS	VxWorks
Flash Memory	8M bytes
SDRAM	48M bytes
EEPROM	16K bytes

### 4. A/V & Data In/Out

CVBS Video Out	RCA x 1
RGB Video Out	TV SCART x 1
SCART	TV x 1, VCR x 1
Analog Audio Out RCA x2(L,R)	Output Level 2Vrms Max Volume & Mute Control
Digital Audio Out	S/PDIF RCA x 1
Data Interface	RS232C, Baud Rate 9600 ~ 115200, 9 Pin D-Sub

### 5. RF-Modulator

RF-connect	75ohm, ICE169-2, Male/Female
Output frequency	470MHz to 860MHz
Output channel	CH 21 ~ 69
TV standard	PAL D/K, PAL B/G , PAL I

### 6. Middleware and Conditional Access System

Middleware	MHP ver 1.0.2
Embedded CAS	1 slot for a CAS smart card
Return Channel	PSTN Modem V.90 56Kbps

### 7. Power Supply

Input Voltage	90-240VAC, 50/60Hz SMPS
Type	Linear PWM
Power Consumption	30W Max.
Protection	Separate Internal Fuse and Chassis Grounding Input shall have lightning or electric shock protection.

### 8. Physical Specification

Size (W x H x D)	320mm x 60mm x 220mm
Weight	about 2.0 Kg

### 9. Environment

Operating Temperature	+ 5 °C ~ + 50 °C
Storage Temperature	- 40 °C ~ + 65 °C