

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

### 1. Tuner & Channel

Frequency Range	47MHz to 862MHz
Input Impedance	75 ohms nominal
Input Signal Level	47dBuV ~ 75dBuV for each channel
Bandwidth	8MHz typical
Waveform	QAM: 16, 32, 64, 128, 256
Symbol Rate	1 ~ 7Ms/s Ideal
Input Connector	IEC 169-2 Female
Center Frequency	36.15MHz nominal

### 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 x 2(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 output

RF Loop-through  
Modulator (Optional)

Cable tuner input bypass  
PAL D/K, PAL B/G, PAL I

### 6. Middleware and Conditional Access System

Middleware  
Embedded CAS  
Return Channel

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

### 7. Power Supply

Input Voltage  
Type  
Power Consumption  
Protection

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

### 8. Physical Specification

Size (W x H x D)  
Weight

320mm x 60mm x 220mm  
about 2.0 Kg

### 9. Environment

Operating Temperature  
Storage Temperature

+ 5 °C ~ + 50 °C  
- 40 °C ~ + 65 °C