



Aston Wamba 311

- Multistandard Digital DVB C&KU band reception
- MCPC & SCPC reception
- 1 embedded conditional access
- 1 Smart card readers
- 1 PCMCIA slot
- 1 IF input tuner
- 1 IF output tuner loop through
- 2 Scart connectors TV & VCR
- Optical digital audio output
- 3 RCA audio L/R & video outputs
- Y/C output (S-VHS format)
- RJ45 interface in/out & flow control for data transfer
- PLL controlled UHF Pal/Secam B/G/I standard modulator CH 21 to 69
- Compatible with all C/Ku Band LNBF
- Local oscillator selection
- Automatic Frequency Control +/-8MHz
- Automatic FEC
- DiSEqC compatible single and dual way with return path
- Two way DiSEqC protocol for motorised antennas
- Drives standard motorised antenna through the ASTON SATSEEKER DS100/200 interface
- LocSat function for fully automatic satellite finding
- Autofocus function for motorised antenna
- S-VHS format output on Scart connector
- Compatible with fixed, SMATV or motorised installation
- Video format 4/3 & 16/9
- Automatic video format selection : Letter box, Pan & Scan or full width
- TV/Sat input select function
- Video fluorescent display of channel name and menu functions
- High resolution full colour interactive On Screen Display
- Choice of OSD language menu and audio language for multilanguage channels
- Interactive and animated graphic selection of installation type mode
- Fully automatic scan and store function on one or several satellites
- Digital signal quality and level bargraph
- Selection of up to 8 symbol rates per satellite for auto scan function
- 3 separated lists of TV, Radio and Data programs organised by satellite and bouquet
- Adding function of a complete new bouquet or a single channel with PIDs entry
- Update and channels' lists reorganisation by bouquet, channel and corresponding satellite
- Automatic selective channel type mode scan and store (free to air, scrambled)
- Delete and replace or update obsolete channels during new scanning
- Edit and modify channel names
- 8 programmable favourite lists
- Channel, Bouquet and or Satellite search in a list by characters string
- Zoom during list scroll
- Freeze and zoom Function during video
- Direct access to favourite or standard channel list
- Electronic Program Guide with present and following event name and summary

- Real calendar and clock inetgrated for a correct and real local time EPG
- Display of local time in front panel on stand by mode
- Radio mode: the receiver behaves like real digital radio tuner
- Teletext VBI insertion mode for TV with teletext
- Genarated teletext option
- Regular and automatic software upgrade via satellite (Astra / HotBird)
- Selective software upgrade by user, operator or a group of users via satellite
- Set Edit Function

Wamba 311 Technical specifications:

Input Frequency	950-2150MHz
Input Level	-65dBm / -25dBm
Bandwidth	27/36 MHz (-3dB)
Impedance	75 Ohms
AFC	+/- 8MHz
Tuner standard	QPSK : SCPC / MCPC
- Symbol rate	- 1.8 to 40 Mb/s
- LNB switching	- DC 0/14/18V (500mA Max)
- Band switching	- 0/22 kHz (-+4KHz) 0.65+-0.25V
Protection against short circuit	Automatic
LNB type	Universal LNB Type 1 or 2 / C band / Single band
DVB compatibility	(ISO/IEC 13818-1 & ETS 300 468)
- Conditional access	- 1 embedded conditional access
- Picture format	- 4/3, 16/9 Pan Scan / Letter box
- Audio mode	- Mono, dual, channel, joint stereo, stereo
- Video memory	- 32 Mbits SDRAM
System memory	32 Mbits DRAM
- Flash memory	- 32 Mbits
EEProm	8 Kbits
HF modulator	PLL / PAL B/G 21-69 / CCIR624-4
Video RCA output	CVBS (PAL/SECAM/NTSC)
Audio RCA output	Stereo (2CH) pair
Digital Audio output	Optical
TV SCART output	CVBS (PAL/SECAM & NTSC), RGB
- Video level	- CCIR 624-4 Standard
- Audio level	- L+R (1Vrms max volume) controlable
VCR SCART output	CVBS (PAL/SECAM), RGB
- Video level	- CCIR 624-4 Standard
- Audio level	- L+R (1Vrms max volume) controllable
- Loop trough	- SVR ST-By or VCR high line function
VCR scart input	CVBS (PAL, SECAM) / YC
Video format switching	16:9 (4.5V to 7.0V) 4:3 (9.5V to 12.0V)
DiSEqC functions	DiSEqC 1.0/1.2 and 2 way protocols
Data interface type	RS232 with stream control
- Connector	- SUB D9
- Debit	- 115 Kbits/s
Number of smart card readers	1
- Physical specifications	- ISO 7816-1
- Protocol	- T=0, T=1
Number of CAM slot	1
- Protocol	- DVB - CI
Front panel LED	Matrix
Main voltage	110 – 230 V AC (-+10%) 50Hz (+-2%)
Power consumption	45W max (standby mode = 10Wmax)
Operating temperature	5°C to 50°C