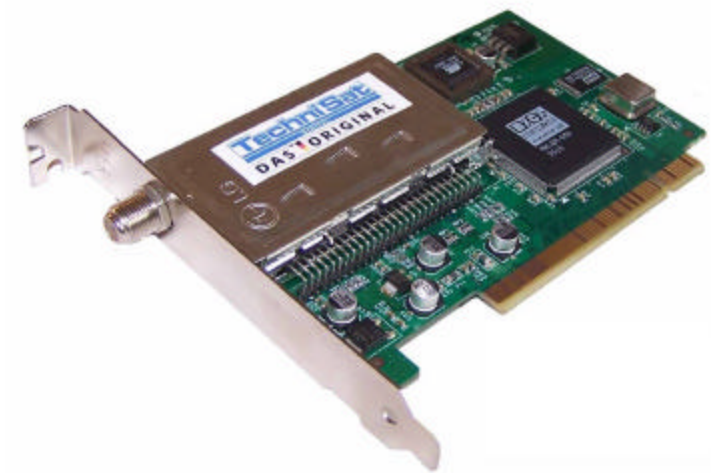




AirStar-HD5000-PCI ATSC (8VSB) and QAM (64,256) Receiver

Product Specification



Revision 3.1 / Part # 92400-25001

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Standard ATSC Support	ATSC A/90: Data Broadcast Standard	Yes
	ISO/IEC 13818-1	Yes
	ISO/IEC 13818-2	Yes
	ISO/IEC 13818-3, MPEG-1 Layer 1 & 2, MP3	Yes
	ISO/IEC 13818-6	Yes
RF Tuner	Input Signal Level (Channel power)	-5dBm to -76dBm
	Tuner Input Frequency Range	54 – 863MHz
	External Connectors	F Type Female
	Nominal Input Impedance	75ohm
	Channel Bandwidth	6MHz
	IF Frequency	44MHz
	Image Rejection	55dBc typical
	Phase Noise	-92dBc @ 100kHz typical (at 473Mhz)
	Input Return Loss	-5dB
	Noise Figure	7dB typical, 11dB max.
8VSB	Error Correction	Reed Solomon and Viterbi
	Compliance	ATSC A/53 8/16 VSB, MMDS 2/8/16 VSB
QAM	Error Correction	Reed Solomon and Viterbi
	Compliance	ITU-T J.83 Annex B,C, 64/256 QAM
Tuner Status	Signal Lock	Yes
	Signal Quality	Yes
	Signal Strength	Yes
	Signal to Noise ratio	Yes
	Uncorrected Blocks	Yes
PC Interface	Computer Bus	PCI
	Interface Protocol	PCI 2.1
	Host Bus Width	32bit
	Host Bus Burst Rate	133MB/s burst to host
	Other relevant information	PCI Bus master 32bit DMA
Data Rate	Aggregate throughput	19.2 Mbps
	No of simultaneous streams	39 PIDs
Demultiplexing	Maximum Input Rate	19.2 Mbps
	Maximum No. Data Stream	Unlimited
	Maximum No. Section Filters	Unlimited
	No. Sections Per Packet	Unlimited
Operating Systems Supported	Windows 2000 Pro / Server	Yes
	Windows XP	Yes
	Windows 2003	Yes
	Windows XP x64	Yes
	Windows 2003 x64 edition	Yes
	LINUX	Yes (Open source)
	Other UNIX	No
Apple Macintosh	No	

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Software Compatibilities	UDP/TCP/IP Protocol	Yes
	PSI/SI Private Tables	Yes
	LLC SNAP/Null Encapsulation	Yes
	Multiple Device Support	No
	Multiple Application Support	Yes
Hardware Compatibilities	Multi-protocol Encapsulation (MPE) Compliant	Yes
	Datagram and Section Packing	Yes
	ECM, EMM to the Bus	Yes
	Section CRC Calculation	No
	PES and TS Data Filtering	Yes
	Unicast/Multicast Filtering	Yes
	No. MAC Addresses Filters	32
	No. PID Filters	39
	No. Section Filters	32
Max. No. Mac Address per PID	Unlimited	
MPEG Video Decoding (Hardware and or Software)	Support MPEG-2 Video MP@ML Syntax	Yes
	GOP structure support I, P and B	Yes
	Video bit rate range	Unlimited
	Resolution for TV	HDTV 1080i
MPEG Audio Decoding	Audio bit rate range	Unlimited
Conditional Access	IP based CA system	Irdeto Access IP CAS (Optional) ViaAccess IP CAS (Optional)
Connectors	RF	F-Type Female
Physical / Environmental	Height	80mm (PCI 2.1 compliant)
	Length	133mm (PCI 2.1 compliant)
	Operating Temperature	0-45C
	Storage Temperature	0-70C
	Operating Humidity	0-85%
	Weight	4.1 oz
	Power Consumption	10W
MTBF	72,000 hours	