



ProSelect™ Series

HEAD END EQUIPMENT — Pro:Idiom™



Head End Equipment

HCS5000R
Transcoder

HCS5500
Modulator
ASI/USB

HCS6000R
DirecTV™
Transcoder

Interface Boxes

PRODUCT/FEATURES	HCS5000R	HCS5500	HCS6000R
Product Usage	ATSC Broadcast/Cable Transcoder	VSB Modulator w/ASI in	DirecTV™ Transcoder
TECHNICAL SPECIFICATIONS			
Input	RF 50-800MHz 8T VSB Broadcast Channels 2-69 or Cable STD/HRC/IRC	DVB-ASI, up to 270 Mb/sec.	<ul style="list-style-type: none"> RF Interfaces with DirecTV 3-LNB/multiswitch SAT front end
Input Transport	ATSC/MPEG-2 DTV data stream	MPEG-2 DTV data stream	<ul style="list-style-type: none"> DirecTV HD/A3 Transport data stream
Video	MPEG-2 ML@MP, HL@MP	MPEG-2 ML@MP, HL@MP	<ul style="list-style-type: none"> MPEG2 HL@MP, ML@MP H.264/MPEG4, Part10(AVC) (platform capable but future upgrade required)
Audio	AC-3	AC-3	<ul style="list-style-type: none"> AC-3 and AAC+
Output	IF, 44MHz center frequency, 8T VSB	IF, 44MHz center frequency, 8T VSB	<ul style="list-style-type: none"> Format—ATSC A53 annex "D" compliant transport stream <ul style="list-style-type: none"> – Single program stream selected by channel Physical interface—DVB-ASI compliant 270 Mb/second transport stream Transport stream output encrypted with Pro:Idiom™ (AES 128 bit keys) Ethernet port for Pro:Idiom™ Key Renewal DirecTV™ Conditional Access <ul style="list-style-type: none"> – AV chip compliant – DES decryption for DirecTV™ legacy stream, AES decryption for A3 stream – ISO7816 smart card slot behind a door
Digital Rights Management	n/a	n/a	
System	LG Innatek TDVL-H001P Tuner/Demod, LGE proprietary VSB modulator, Freescale microcontroller	DVB-ASI interface, LGE proprietary VSB modulator	<ul style="list-style-type: none"> Main CPU(64bits) BCM7038 → MIPS R5000 (420MIPS@300MHz) Memory Flash: 16MB with OTP capability for 2 sectors of 128KB each RAM: 128MB DDR-SDRAM EEPROM: 32KB
Special Features	Includes mounting slot and power connector for Drake DUCxxx upconverter or equivalent.	Case designed to slide into Drake DRMM-12 2U rack unit or equivalent.	

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