

ASTRO U 154 / 158

IP / QAM CONVERTER MODULE FOR U-100 CHASSIS



The U-154 / U-158 unit converts four (U-154) or eight (U-158) IP multicast groups from a Gigabit Ethernet MPEG transport stream into four / eight QAM channels. The QAM channels will be extracted two as adjacent channel pairs. Excellent RF parameters will be guaranteed by the Direct Digital technology such as a typical MER of 45 dB. Optional output filters are available for providing very good parameters after combining. The unit can be configured through web browser.

SPECIFICATIONS

TYP		U 154	U 158
ETHERNET INTERFACES (PASSIVE TRANSMISSION FROM U-100)			
Management		2 x 100 Base-T Ethernet (RJ 45)	
Data		2 x 1000 Base-T Ethernet (RJ 45)	
Protocol		IEEE802.3 Ethernet, RTP, ARP, IPv4, TCP/UDP, HTTP, SNMP, IGMPv3	
TRANSPORT STREAM PROCESSING			
TS Encapsulation		UDP, UDP / RTP, 1-7 packets, FEC	
Packet length	[Bytes]	188/ 204	
QAM MODULATOR			
Modulation		16-, 32-, 64-, 128-, 256-QAM	
Signal processing		accord. DVB standard	
Spectrum shape	[%]	15 (cos roll off)	
FEC		Reed-Solomon (204,188)-Code	
Rate adjustment		√	
PCR correction		√	
NIT handling		√	
Output symbol rate	[Mbaud]	3,45-7,5 (for two adjacent channels)	
Bandwidth	[MHz]	4-8, depends on symbol rate	
Brutto data rate	[Mbits]	55,2	
MER (Equalizer)	[dB]	typ. 44	
RF OUTPUT			
Connectors	[Ω]	75,2x F connector	
Frequency range	[MHz]	47-862, digitally modulated	
Output level	[dBμV]	114	
Return loss	[dB]	>14	
Spurious frequency distance	[dB]	>60	
COMMON DATA			
Power consumption	[W]	27	28
Operating temperature	[°C]	0...+45	0...+45