

Messages concerning power supply, temperature and fans		
Message text	Possible causes	Measurements for troubleshoot, if necessary
PowerFanTemp fail	 Power supply defect or wrong configuration 	 provide cool air supply exchange power supply or check the configuration of power supply check fan function and exchange fan if necessary
PowerFanTemp good	information	

Messages concerning copy protection		
Message text	Possible causes	Measurements for troubleshoot, if necessary
Copyprot fail	Hardware error	 Hardware defective, please send device to ASTRO
Copyprot good	information	

Messages concerning the functionality of management interfaces mgmt A and mgmt B		
Message text	Possible causes	Measurements for troubleshoot, if necessary
Mgmt A / B link fail	 Linkloss at the displayed port stated port is not used but not deactivated in Web GUI 	 check the network cable, check the port configuration at the switch deactivate the displayed port at the Web GUI. If the U 100-C will be used, the affected module has to be removed from configuration first to get direct access to the module
Mgmt A / B link good	information	
Mgmt A / B switched to 100M	information	
Mgmt A / B switched to 1G	information	

Messages concerning the functionality of data interfaces data A and data B		
Message text	Possible causes	Measurements for troubleshoot, if necessary
Data A / B link fail	 Linkloss at the displayed port stated port is not used but not deactivated in Web GUI 	 check the network cable, check the port configuration at the switch deactivate the displayed port at the Web GUI
Data A / B link good	information	
Data A / B switched to 100M	information	
Data A / B switched to 1G	information	

Messages concerning the IP receiving channels		
Message text	Possible causes	Measurements for troubleshoot, if necessary



IP RX x A Data loss	 > 2s no practical data rate 	 IP-network misconfiguration, check IP settings in transmitter and receiver
IP RX x A Data ok	information	
IP RX x B Data loss	 > 2s no practical data rate 	 IP-network misconfiguration, check IP settings in transmitter and receiver
IP RX x B Data ok	information	
IP RX x A Sec Data loss	 > 2s no practical data rate 	 IP-network misconfiguration, check IP settings in transmitter and receiver
IP RX x A Sec Data ok	information	
IP RX x B Sec Data loss	 > 2s no practical data rate 	 IP-network misconfiguration, check IP settings in transmitter and receiver
IP RX x B Sec Data ok	information	
IP RX x select primary	 information, switching is done 	
IP RX x select secondary	 information, switching is done 	
IP RX x is RTP	information	
IP RX x is UDP	information	
IP RX x is VBR	information	
IP RX x is CBR	information	
IP RX x Missing 1	RTPone frame is missing (warning)	 if this occurs often, the IP infrastructure has to be checked
IP RX x Missing	RTP >1 frame is missing (error)	 if this occurs often, the IP infrastructure has to be checked
IP RX x Fixed	 FEC was able to recover frame 	 if this occurs often, the IP infrastructure has to be checked
IP RX x Duplicate	RTP frame duplicated	 if this occurs often, the IP infrastructure has to be checked
IP RX x Reordered	RTP frame reordered	 if this occurs often, the IP infrastructure has to be checked
IP RX x OutOfRange x	 RTP frame reordering not possible (buffer depth too small) 	 if this occurs often, the IP infrastructure has to be checked
IP RX x got flushed	 buffer error caused by too much or too little data, too big jitter or burst 	 if this occurs in standard operation: check the input IP data stream message can occur at the beginning of operation and will disappear after the receiver has locked to the clock
IP RX x Switching to Data A	 Device changes the data reception to data interface Data A 	
IP RX x Switching to Data B	 Device changes the data reception to data interface Data B 	
IP RX x Switching back to Data A	 Device changes the data reception back to data interface Data A 	
IP RX x Switching back to Data B	 Device changes the data reception back to data interface Data B 	



Messages concerning the status of the modulators		
Message text	Possible causes	Measurements for troubleshoot, if necessary
MOD x.y data rate mismatch	 IP_RX data ratio and modulator data ratio 	 Adaption of the data ratio or checking the IP configuration on possible
	 don't fit to another 	network jitter
	 no steady state of the IP buffer 	
	 could be the cause as well 	
MOD x.y data rate ok	 information 	
MOD x.y no input stream selected	 no input TS chosen 	 choose an input TS or switch off MOD x.y
MOD x.y input stream selected	 information 	
MOD x.y no input stream	 no input TS available (data rate = 0) 	 check if the chosen TS is available in the chosen multicast group
MOD x.y input stream present	information	
MOD x.y TS-Sync loss	 Sync Byte > 3 times not available 	 analyse the input TS
MOD x.y TS-Sync ok	 information, 5 times Sync Byte available 	
MOD x.y sync byte error	 1-3 Sync Byte not available 	 analyse the input TS
MOD x.y PAT error	 100 ms no PAT, PAT scrambling control bit 	analyse the input TS
	•set, wrong table ID (not 00, which is used for	
	PAT in standard TS)	
MOD x.y transport error	• TEI (Transport Error Indicator) set in MPEG	 analyse the input TS (Transport Error Indicator will be set in case that the
	header	demux recognizes a not-correctable error in the TS
MOD x.y SID-Filter cleared	 information 	

Messages concerning the status of the RF outputs		
Message text	Possible causes	Measurements for troubleshoot, if necessary
RF x.y security switch off	 output level deviation > 3dB of reference level 	 coaxial cable not connecetd? Amplifier defective, if yes exchange device
RF x.y security switch retry z	 attempt to switch RF on again 	
RF x.y level too high	 warning at output level deviation > 2,5 dB 	 coaxial cable not connecetd? Amplifier defective, if yes exchange device
RF x.y level too low	 warning at output level deviation < 2,5 dB 	 coaxial cable not connecetd? Amplifier defective, if yes exchange device
RF x.y level good	information	
Reference RFx set to y	information	

Messages concerning the system		
Message text	Possible causes	Measurements for troubleshoot, if necessary
Login	information, login to the module successful	



Login timeout	information, login finished after timeout	 login again in submenu "Login"
2nd settings saved	information, actual status saved to 2nd settings	
2nd settings loaded	information, config loaded which was saved in 2nd settings	
Default settings loaded	information	
Reboot initiated	information	
Log file cleared	information	
Config load started	information	
Config load ok	information	
Config load failed	• (T)FTP error in loading the configuration	log information in log file of the device
Config save started	information	
Config save ok	information	
Config save failed	• (T)FTP error in saving the configuration	 log information in log file of the device (wrong server config, config file not available on the server)
Firmware download from server started	information	
Firmware download from server ok	information	
Firmware download from server failed	• (T)FTP error at the download of the firmware	 log information in log file of the device (wrong server config, file not available on server)
Firmware archive unpack started	information	
Firmware archive unpack ok	information	
Firmware archive unpack failed	 firmware archive could not be unpacked 	 upload archive again and retry the unpacking
Firmware update from SD-Card started	information	
Firmware update from SD-Card ok	information	
Firmware update from SD-Card failed	 update from SD card failed 	 upload archive again to SD card and retry the update
Backup firmware differs!	 version of the backup firmware differs from the version of the operating software 	 choose the option "overwrite backup firmware"
Overwrite backup firmware started	information	
Overwrite backup firmware ok	information	
Overwrite backup firmware failed	writing error on flash	• try again, if no success \rightarrow hardware error
Firmware expert update started	information	
Firmware expert update ok	information	
Firmware expert update failed	• (T)FTP error or flash error	log information in log file of the device



Firmware corrupt	 FPGA could not be loaded, mount failure SD card 	SD card OK? Repeat update procedure
Firmware version mismatch	• the parts of the firmware don't fit to each other	Repeat update procedure
NO-SD Card	no SD card in the device	insert SD card and make an update
Modulator fail	 modulator FPGA could not be loaded 	Update or SD card error
Modulator setting fail	BUS connection to the modulator doesn't work	Software update or downgrade if the message occurs after update
HTTP Watchdog	Webserver is unreachable	Send the device to ASTRO
Logout	information, logout done	
alive - free: x	information, debug message	
Mgmt A changed	settings changed	
Mgmt B changed	 settings changed 	
Data A changed	 settings changed 	
Data B changed	settings changed	
DNS changed	settings changed	
SNTP changed	settings changed	
SNMP changed	settings changed	
Test Gen changed	settings changed	
Output Mux x changed	settings changed	
TS_RX changed	settings changed	
MOD x.y TS changed	settings changed	
RTP RX x changed	settings changed	
IP RX A x changed	settings changed	
IP RX B x changed	 settings changed 	
RF x.y changed	settings changed	
RFx.y switched off	 output channel switched off 	
MOD x.y changed	settings changed	
MOD x.y SID/PID-Filter changed	 settings changed or different PMT 	
MOD x.y PID-Remapping changed	settings changed	
System description	information system name / version	
SD-Card is write protected	write protected SD card inserted	remove copy protection of SD card or exchange SD card
Time is not synced	time is not synchronized	check timeserver settings or choose TS as time source
Time is synced	information	