

DM3 Error Codes

How to View Error Codes:

Press Menu and CH Down on the FPA to Display the Service Menu
 Press 2, "Service Mode", A panel at the bottom of the screen will show P:0 V:0
 Press Volume Up Until V is 50
 Press Channel Up to View The First Error
 Press Channel Up/Down to View the Next/Previous Error
 Information is displayed in the following order: Error #, Date, Time, Type, Count, Code
 Press Clear to Clear the Error Code that is Currently Being Displayed
 Press Power Off or Power Toggle to Return to the P:0 V:50 Display
 Press Power Off or Power Toggle Again to Return to Normal TV Viewing

Errors are replaced in the Log as Follows:

If an Error of the same TYPE is already logged, the error will overwrite the existing error of that type and the count will be increased, except:
 - For IIC Errors separate errors are logged if the Chip/Bus differs
 - All DLP errors will be logged separately
 If an Error of the same TYPE is not already logged, then the errors will be stored in the following order: First, Second, Third,... Last

Type (hex)	Description		0	1	2	3	4	5	6	7
1	Chassis (General)		0	0	0	0	0	0	0	0
2	Convergence	Parity Error	30	0	0	0	0	0	0	0
		Loop Fault	31	0	0	0	0	0	0	0
		Output Inactive	32	0	0	0	0	0	0	0
		Bus Fault	33	0	0	0	0	0	0	0
		Other	34	0	0	0	0	0	0	0
		I2C	35	0	0	0	0	0	0	0
		REF_EE	36	0	0	0	0	0	0	0
3	Chassis Power	Initial Power Fault	10	Additional Data				0	0	0
		Other	14	Additional Data				0	0	0
		Invalid Handle	15	Additional Data				0	0	0
		Power Supply Fault	16	Additional Data				0	0	0
4	Deflection	EEProm Corrupt	11	0	0	0	0	0	0	0
		POR	12	0	0	0	0	0	0	0
5	XRP	XRP	13	0	0	0	0	0	0	0
6	Back End Processor	BEP POR	0	0	0	0	0	0	0	0
7	Back End Video	Algorithm Error	0	0	0	0	0	0	0	0
8	DLP	Driver Fan Fail	40	0	0	0	0	0	0	0
		Lamp Fail	41	0	0	0	0	0	0	0
		No Lamp Strike	42	0	0	0	0	0	0	0
		No Lamp Lit	43	0	0	0	0	0	0	0
		DDP1010 Reset	47	0	0	0	0	0	0	0
		Color Wheel Blower	48	0	0	0	0	0	0	0
		System Fan Fail	49	0	0	0	0	0	0	0
21	IIC Read		Chip	Bus	Details	0	0	0	0	0
22	IIC Write		Chip	Bus	Details	0	0	0	0	0
23	IIC Bus Latched		Chip	Bus	0	0	0	0	0	0
31	App (General)		?	?	?	?	?	?	?	?
32	Reset Count		0	0	0	0	0	0	Reset Count	
41	Software Watchdog		Task ID(s) - See Below							
42	Hardware Watchdog		0	0	0	0	0	0	0	0
51	Guide	Process Termination	Process Exit Code				0	0	0	0
61	Audio	Audio Exception	0	0	0	0	0	0	0	0
71	Other	Fan Max Speed	0	0	0	0	0	0	0	0
81	POD	SCTE28	Apndx E	0	0	0	0	0	0	0
82	POD	Bad Certs	0	0	0	0	0	0	0	0
83	POD	Trans Timeout	0	0	0	0	0	0	0	0
84	POD	FR Timeout	0	0	0	0	0	0	0	0

Additional Data Description IIC Errors ("Code")			
21,22,23	Bus	0	3 Bus: DM
		1	3 Bus: Tuner
		2	Run Bus: AVIO
		3	Run Bus: DLP
		4	Run Bus: Deflection
21,22	Details	1	chip did not acknowledge when was expected to
		2	some hardware error detected, maybe one of the lines is grounded
		3	some software error, e.g. not enough memory, or could not acquire the mutex
	Chip	Bus	Module Comment
	24	AVIO	AVIO TA1270 Chroma Decoder
	28	Tuner	DM3 Nextwave
	2A	Tuner	DM3 Nextwave
	30	DM	DM3 Picture Signal Improvement (PSI) FPGA
	34	DLP	LE DDP1010 Light Engine Controller
	40	Deflection	Deflection DAC
	42	DLP	LE PCF8574 I/O Expander
	54	DM	DM3 GPIF
	60	DM	DM3 9993 HDMI Receiver
	68	DM	DM3 9993 HDMI Receiver
	80	DM	DM3 Micronas Audio Processor
	84	Tuner	DM3 Cable IF
	86	Tuner	DM3 Air IF
	88	Deflection	BEP TA1316 Back End Video Processor
	8C	Deflection	Deflection TA1317 Deflection Processor
	90	AVIO	AVIO LA79500 1H A/V Switch
	92	AVIO	AVIO CXA2189Q HD Switch
	96	DM	DM3 LM77 Digital Temperature Sensor
	98	DLP	LE LM75 Digital Temperature Sensor
	98	DM	DM3 9883A HDADC
	A0	DM	DM3 DMx Main EEPROM
	A0	Deflection	Deflection EEPROM (lower 256 bytes)
	A2	Deflection	Deflection BEP EEPROM (upper 256 bytes of Deflection EEPROM)
	A8	AVIO	AVIO AVIO Eeprom
	AC	DLP	LE Light Engine Eeprom (lower 256 bytes)
	AE	DLP	LE Light Engine Eeprom (upper 256 bytes)
	B8	AVIO	AVIO Frame Comb
	C0	Tuner	DM3 Cable Tuner PLL -1
	C2	Tuner	DM3 Air Tuner PLL
	C6	Tuner	DM3 Cable Tuner PLL - 2
	DC	Deflection	Convergence Convergence Micro

Additional Data Description (Type 32)
This is a count of all system resets since the field code was last cleared. This includes AC dropouts, forced system resets in the code, and resets due to unknown causes

Additional Data Description (Type 81)
Corresponds to errors listed in Appendix E of SCTE28

Additional Data Description (Type 41)

The first Task Id is the first task to count down to zero. The remaining 7 Ids are any tasks whose counts are at or below 16.

Thread Name	Hex Value	Thread Name	Hex Value
UNKNOWN_TASK_ID = 0,	00	POD_PHYS_LINK_MAIN_TASK_ID,	3E
CC_TASK_DRAW_MAIN_ID,	01	POD_LINK_SEND_MAIN_TASK_ID,	3F
CC_TASK_MAIN_ID,	02	TV_POWER_TASK_ID,	40
CC_TASK_WINMAIN_ID,	03	KEYMGR_MAIN_TASK_ID,	41
DM_MAIN_TASK_ID,	04	POD_CAMAIN_TASK_ID,	42
AV_DRV_MONITOR_ID,	05	POD_CPMAIN_TASK_ID,	43
AV_DRV_CTL_MAIN_ID,	06	EXT_CHAN_MAIN_TASK_ID,	44
AV_DRV_CTL_PIP_ID,	07	POD_HOMING_TASK_ID,	45
CA_MAIN_TASK_ID,	08	MMI_MAIN_TASK_ID,	46
CC_DRAW_MAIN_ID,	09	POD_RESMGR_MAIN_TASK_ID,	47
CC_MAIN_TASK_ID,	0A	POD_SESSION_MAIN_TASK_ID,	48
CHANACQ_MAIN_TASK_ID,	0B	POD_TRANSPORT_MAIN_TASK_ID,	49
CHANACQ_PIP_TASK_ID,	0C	IEEE1394P2PINPUT_TASK_ID	4A
CHANACQ_VBI_TASK_ID,	0D	IEEE1394P2POUTPUT_TASK_ID	4B
CHANACQ_RECORD_TASK_ID,	0E	POD_UPGRADE_TASK_ID	4C
CHANACQ_1394_TASK_ID,	0F	TL9_VIDEO_SERVICE_TASK_ID	4D
CHANACQ_P2P_TASK_ID,	10	Not Assigned	4E
CHANEPG_MAIN_TASK_ID,	11	Not Assigned	4F
CHANEPG_PIP_TASK_ID,	12	Not Assigned	50
CHANEPG_VBI_TASK_ID,	13	Not Assigned	51
CHANEPG_RECORD_TASK_ID,	14	Not Assigned	52
CHANEPG_1394_TASK_ID,	15	Not Assigned	53
CHANEPG_P2P_TASK_ID,	16	Not Assigned	54
EAS_MAIN_TASK_ID,	17	Not Assigned	55
EPG_ACQ_TASK_MAIN0_ID,	18	Not Assigned	56
EPG_ACQ_TASK_MAIN1_ID,	19	Not Assigned	57
EPG_ACQ_TASK_MAIN2_ID,	1A	Not Assigned	58
EPG_ACQ_TASK_MAIN3_ID,	1B	Not Assigned	59
EPG_ACQ_TASK_MAIN4_ID,	1C	Not Assigned	5A
EPG_ACQ_TASK_MAIN5_ID,	1D	Not Assigned	5B
EPG_ACQ_TASK_MAIN6_ID,	1E	Not Assigned	5C
EPG_ACQ_TASK_MAIN7_ID,	1F	Not Assigned	5D
EPG_ACQ_TASK_MAIN8_ID,	20	Not Assigned	5E
EPG_ACQ_TASK_MAIN9_ID,	21	Not Assigned	5F
EPG_ACQ_TASK_MAIN10_ID,	22	Not Assigned	60
EPG_ACQ_TASK_MAIN11_ID,	23	Not Assigned	61
IEEE1394_INPUT_TASK_ID,	24	Not Assigned	62
IEEE1394_OUTPUT_TASK_ID,	25	Not Assigned	63
IEEE1394_MONITOR_TASK_ID,	26	Not Assigned	64
HWCTRL_TASK_ID,	27	Not Assigned	65
POD_CTRL_OOB_MONITOR_TASK_ID,	28	Not Assigned	66
POD_CTRL_MAIN_TASK_ID,	29	Not Assigned	67
SCHED_TASK_MAIN_ID,	2A	Not Assigned	68
TP_BRIDGE_TASK_ID,	2B	Not Assigned	69
TP_EXT_CHAN_TASK_ID,	2C	Not Assigned	6A
TP_RECEIVE_TASK_ID,	2D	Not Assigned	6B
TUNER_CABLE_TASK_ID,	2E	Not Assigned	6C
TUNER_AIR_TASK_ID,	2F	Not Assigned	6D
UI_MAIN_TASK_ID,	30	Not Assigned	6E
IEEE1394_CONNECTISOC_TASK_ID,	31	Not Assigned	6F
XDS_MAIN_TASK_ID,	32	Not Assigned	70
ASW_MODE_DETECT_TASK_ID,	33	Not Assigned	71
AUDIO_STATUS_TASK_ID,	34	Not Assigned	72
DEFLECTION_TASK_ID,	35	Not Assigned	73
DLP_POWER_TASK_ID,	36	Not Assigned	74
DLP_TASK_ID,	37	Not Assigned	75
FIREWALL_TASK_ID,	38	Not Assigned	76
FPA_SCAN_TASK_ID,	39	Not Assigned	77
FPIR_REMOTE_IST_ID,	3A	Not Assigned	78
FPIR_KEYBD_IST_ID,	3B	Not Assigned	79
FPIR_KEYBD_PTR_IST_ID,	3C	Not Assigned	7A
POD_IST_ID,	3D	Not Assigned	7B

Additional Data Description (Type 51)

The guide process should never terminate but if it does, the exit code will likely be one of the following exception values:

Exception	Value	Exception	Value
ACCESS_VIOLATION	C0000005	FLT_UNDERFLOW	C0000093
DATATYPE_MISALIGNMENT	80000002	INT_DIVIDE_BY_ZERO	C0000094
BREAKPOINT	80000003	INT_OVERFLOW	C0000095
SINGLE_STEP	80000004	PRIV_INSTRUCTION	C0000096
ARRAY_BOUNDS_EXCEEDED	C000008C	IN_PAGE_ERROR	C0000006
FLT_DENORMAL_OPERAND	C000008D	ILLEGAL_INSTRUCTION	C000001D
FLT_DIVIDE_BY_ZERO	C000008E	NONCONTINUABLE_EXCEPTION	C0000025
FLT_INEXACT_RESULT	C000008F	STACK_OVERFLOW	C00000FD
FLT_INVALID_OPERATION	C0000090	INVALID_DISPOSITION	C0000026
FLT_OVERFLOW	C0000091	GUARD_PAGE	80000001
FLT_STACK_CHECK		INVALID_HANDLE	C0000008