

ADDENDUM 1
to
DIGITAL CLOCK DISTRIBUTOR
500 SERIES
INPUT/OUTPUT REFERENCE GUIDE
RELEASE 5.01.xx

1. GENERAL

1.001 This is an addendum to Issue 1 of Symmetricom's Digital Clock Distributor 500 Series Input/Output Reference Guide Release 5.01.xx (part number 097-45018-06) which is part of the TL1 User's Guide (997-45018-25). Place this addendum in front of Issue 1 of the Input/Output Reference Guide, Release 5.01.xx.

1.002 This addendum has been reissued to correct the addendum number on the replacement pages.

2. CHANGES

2.001 The changes listed below were made. Changed areas are marked by change bars.

- On Page 28, a caution was added to the trouble-code parameter for TO cards in the ED-EQPT command.

- On Page 57, a caution was added to the trouble-code parameter for TO cards in the RTRV-EQPT command
- On Page 63, the RTRV-PM-PORT command format was modified.
- On Page 81, the SET-ATTR-PORT command format was modified.

2.002 To implement the changes in the previous paragraph, do the following:

- Replace pages 27/28 of Issue 1 of 097-45018-06 with the attached pages 27/28.
- Replace pages 57/58 of Issue 1 of 097-45018-06 with the attached pages 57/58.
- Replace pages 63/64 of Issue 1 of 097-45018-06 with the attached pages 63/64.
- Replace pages 81/82 of Issue 1 of 097-45018-06 with the attached pages 81/82.

COMMAND CODE: ENT-EQPT

PURPOSE

ENTER EQUIPMENT

This command enters equipment into the system database.

INPUT FORMAT

ENT-EQPT:[<tid>]:<aid>:<ctag>::[<framing>],[<troublecode>],
 [<portseverity>],[<osc1>],[<osc2>],[<integration>];

The parameter values in the table below are as follows:

a = 1-2 b = 1-11 c = 1-10

aid	parameter	value	meaning
CLK-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
GTI-a	framing	CAS	channel assigned sequence
		CAS4	channel assigned sequence with frame aligned sequence with cyclic redundancy check 4
		CRC4	frame alignment sequence framing with cyclic redundancy check 4
		D4	D4 framing format
		ESF	ESF framing format
		FAS	frame alignment sequence framing
	troublecode	INH	all outputs are squelched when card has major alarm
		ALW	AIS is sent on all outputs when card has major alarm
	portseverity	(null)	(not applicable)
	osc1	RB	OSC A is rubidium clock
		QTZ	OSC A is quartz clock
	osc2	RB	OSC B is rubidium clock
		QTZ	OSC B is quartz clock
	integration	1	see Table D
		2	see Table D
		3	see Table D
4		see Table D	

COMMAND CODE: ENT-EQPT (Contd)

INPUT FORMAT (Contd)

aid	parameter	value	meaning
LTI-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
MRC-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
PSM-b	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
TO-c	framing	CAS	channel assigned sequence
		CAS4	channel assigned sequence with frame aligned sequence with cyclic redundancy check 4
		CRC4	frame alignment sequence framing with cyclic redundancy check 4
		D4	D4 framing format
		ESF	ESF framing format
		FAS	frame alignment sequence framing
	troublecode	INH	all outputs are squelched upon card failure
		ALW	AIS is sent on all outputs upon card failure Caution: If any port on the card is set for ANALOG, the troublecode must be set to INH.
	portseverity	MJ	port failure causes major alarm
		MN	port failure causes minor alarm
	osc1	(null)	(not applicable)
	osc2		
	integration		

COMMAND CODE: RTRV-EQPT (Contd)

RESPONSE FORMAT (Contd)

aid	parameter	value	meaning
MRC-a	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
PSM -b	framing	(null)	(not applicable)
	troublecode		
	portseverity		
	osc1		
	osc2		
	integration		
TO-c	framing	CAS	channel assigned sequence
		CAS4	channel assigned sequence with frame aligned sequence with cyclic redundancy check 4
		CRC4	frame alignment sequence framing with cyclic redundancy check 4
		D4	D4 framing format
		ESF	ESF framing format
		FAS	frame alignment sequence framing
	troublecode	INH	all outputs are squelched upon card failure
		ALW	AIS is sent on all outputs upon card failure Caution: If any port on the card is set for ANALOG, the trouble-code must be set to INH.
	portseverity	MJ	port failure causes major alarm
		MN	port failure causes minor alarm
	osc1	(null)	(not applicable)
	osc2		
	integration		

COMMAND CODE: RTRV-EQPT (Contd)

EXAMPLE

Input:

```
RTRV-EQPT::TO-5:134;
```

Response:

```
SANJOSE-114 1997-12-08 15:04:13  
M 134 COMPLD  
"TO-5:ESF,INH,MN,,,";
```

This example, tagged as command 134, displays port 5 of timing output card 5 as: framing = ESF, all outputs will be squelched upon card failure, and a minor alarm will be generated upon port failure.

COMMAND CODE: RTRV-PM-PORT

PURPOSE

RETRIEVE PERFORMANCE MONITORING PORT

This command displays the current set of PM data for one or more facilities. The PM data may be used to load or verify a database, to examine events that are not reported by automatic messages, or to evaluate the system after maintenance operations. Parameters are provided to display past PM data if the MIS card is configured to store such data. PM data is retrieved from the specified time period to the current time period.

INPUT FORMAT

RTRV-PM-PORT: [<tid>] : <aid> : <ctag> : : <montype> , , , , [<mondatt>] ,
 [<montm1> | <montm2>] ;

The parameter values in the table below are as follows:

a = 1-2 b = 1-4 c = 1-11

aid	parameter	value	meaning
MRC-a-b	montype	ALL	all montypes for this <aid>
		BPV	bipolar violations
		CRC	cyclic redundancy check errors
	mondatt	(null)	current day
	montm1	(null)	current time

COMMAND CODE: RTRV-PM-PORT (Contd)

INPUT FORMAT (Contd)

aid	parameter	value	meaning
PSM-c-b	montype	SLIPS	number of slips since the previous midnight (used with mondat and montm 1)
		BPV	bipolar violations since the previous 15-min reset (used with montm2)
		CRC	cyclic redundancy check errors since the previous 15-min reset (used with montm2)
		MTIE	if today's date is entered, the 1-second MTIE accumulated between now and the previous 24 hours; if any previous date is entered, the 1-second MTIE accumulated between midnight on that date and the previous midnight (units of measure for MTIE are nanoseconds)
		TDEV	if today's date is entered, the 1000-second TDEV accumulated between now and the previous 24 hours; if any previous date is entered, the 1000-second TDEV accumulated between midnight on that date and the previous midnight (units of measure for TDEV are nanoseconds)
		PHASE1M	1-minute raw phase accumulated between montm2 and 1 hour after montm2 (units of measure for PHASE1M are nanoseconds)
		PHASE1S	1-second raw phase accumulated between montm2 and 1 hour after montm2 (units of measure for PHASE1S are nanoseconds)
	mondat	mm-dd	mm = month, dd = day
		(null)	current day
	montm1	(null)	current time
	montm2	hh-00	hh = 00-23 (hour of the day)
		hh-15	15 minutes past hour hh
		hh-30	30 minutes past hour hh
hh-45		45 minutes past hour hh	

RESPONSE FORMAT

For BPV (CRC, SLIPS, MTIE, TDEV, and PHASE1M will appear similarly):

```

    <sid> <date> <time>
M <ctag> COMPLD
  "<aid>:<montype>,<monval>,<vldty>,,, <mondat>,<montm>" ...
;
  
```

Note: The <monval> units of measure for MTIE and TDEV are nanoseconds. The <monval> units of measure for PHASE1M are nanoseconds and 60 lines will be displayed.

COMMAND CODE: SET-ATTR-PORT

PURPOSE

SET ATTRIBUTE PORT

This command sets the notification code associated with the specified event. This attribute governs whether the event is reported automatically. Alarmed events are reported automatically by the REPORT ALARM message. Non-alarmed events are reported automatically by the REPORT EVT message.

INPUT FORMAT

SET-ATTR-PORT: [<tid>] : <aid> : <ctag> : : <ntfcncde> , <condtype> ;

The parameter values in the table below are as follows:

a = 1-2 b = 1-4 or ALL c = 1-11

aid	ntfcncde	condtype	meaning
MRC-a-b	CR, MJ, MN, NA, or NR	AIS	alarm indication signal
		BPV	bipolar violations
		CRC	cyclic redundancy check errors
		FFREQ	fractional frequency threshold exceeded
		LOS	loss of signal
		OOF	out of frame errors
		ALL	all condtypes

COMMAND CODE: SET-ATTR-PORT (Contd)

INPUT FORMAT (Contd)

aid	ntfncde	condtype	meaning
PSM-c-b	CR, MJ, MN, NA, or NR	AIS	alarm indication signal
		BPV	bipolar violations
		CRC	cyclic redundancy check errors
		OOF	out of frame errors
		LOS	loss of signal
		ALL	all condtypes
		MTIE1	1 second threshold
		MTIE2	2 second threshold
		MTIE4	4 second threshold
		MTIE10	10 second threshold
		MTIE16	16 second threshold
		MTIE20	20 second threshold
		MTIE40	40 second threshold
		MTIE64	64 second threshold
		MTIE100	100 second threshold
		MTIE128	128 second threshold
		MTIE200	200 second threshold
		MTIE400	400 second threshold
		MTIE512	512 second threshold
		MTIE900	900 second threshold
		MTIE1000	1000 second threshold
		MTIE2000	2000 second threshold
		MTIE4000	4000 second threshold
MTIE3600	3600 second threshold		
MTIE10000	10000 second threshold		
MTIE20000	20000 second threshold		
MTIE40000	40000 second threshold		
MTIE86400	86400 second threshold		