8250 Management Modules Command Quick Reference Guide

SA33-0233-04

This guide provides a quick reference to commands and options when you are operating the following 8250 Management Modules:

- Ethernet Management Module (EMM)
- Token Ring Management Module (TRMM)
- FDDI Management Module (FMM)

This guide includes the following information:

- Terminal Keystroke Functions
- IBM® 8250 Management Module Commands

Refer to the *8250 Management Commands Guide* (Document Number SA33-0302) for more information on command use.

Terminal Keystroke Functions

Table 1 is a quick reference for terminal keystrokes and their functions.

Table 1. Terminal Keystroke Functions

Keystroke	Function
Backspace	Moves the cursor back one character and deletes that character.
Ctrl-C	Terminates the current command and returns to a blank command line at any time.
Ctrl-D	Closes a TELNET session.
Ctrl-R	Retypes the previous command string on the command line.
Delete	Same as Backspace.
Enter	Enters the command.
Space Bar	Completes a command through *command completion*.
?	Displays the available command options.

The command table that follows uses the following notations:

[1] Command is only available through Maintenance Mode.

[2] Command is only available using Advanced EMM software (that is, not available using Basic EMM, or other 8250 management modules).

[3] Command is only available using Advanced TRMM software (that is, not available using Basic TRMM, or other 8250 management modules).

[4] Command is only available using FMM software.

8250 Management Module Commands

In the command table:

- Select commands from the left column, then select parameters from the right columns.
- User-selectable command variables appear in *italic*.

Command	Parameters		
?			
BOOT[1]			
BOOTP (Not available for EMM)			
CLEAR	arp_table		
	bootp result[TRMM only]		
	community	1 to 10 all	
	counter	all device module network port station	 *slot* *slot.port, slot.*all *mac address,* all
	event_log [4]		
	group[3]	all group1 to group8	*slot.port*, all, non_existing
	host	1 to 20 all	
	log [3]	system_event[2] event_log trap_log	

1 = Maintenance Mode , 2 = Advanced EMM, 3 = Advanced TRMM, 4 = FMM

Command	Parameters		
CLEAR (continued)	login	1 to 10 all	
	rmon[4]	alarm event host matrix ringstation statistics mac_layer statistics promiscuous statistics sourcerouting topN_hosts	all *index*
	schedule [3]	1 to 20 all	
	script [3]	1 to 8 all	
	security [2, 3] autolearn	*slot.*all *slot.port*	mac_address *address*
	security [2, 3] intruder_list		
	security port [2, 3]	*slot.*all *slot.port*	mac_address *address*
	tftp result[2]		
	threshold[3]	all 1 to 10	
COPY	script	1 to 8	
DOWNLOAD	inband[2]	all_fddi_port_module[4] device[4]	
	out_of_band[2]	boot [3, 4] flash [3, 4] media [4]	
LOGOUT			
MAINTAIN			

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Command	Parameters		
MONITOR (EMM and FMM)	0:05 seconds to 30 minutes	module *slot* network port *slot.port*	
MONITOR (TRMM) 0:05 seconds to 30 minutes	device network port *slot.port* station all station *mac_address* top_errors[2] top_receivers[2] top_senders[2]	 errors, traffic[2] errors, traffic[2] errors, traffic[2] errors, traffic[2] 1 to 18, all, last value 1 to 18, all, last value 1 to 18, all, last value	 by_frames, by_mac_address, by_octets
PING	ip_address name	*ip_address* *host name* (EMM only)	*# of packets, 1 packet* *# of packets, 1 packet*
REMOTE_ LOGIN[2]	ip_address mac_address name	*ip address* *mac address* *name*	
RESET	concentrator device mastership module power_supply	 *slot*	
RUN SCRIPT	1 to 8		

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Command	Parameters		
REVERT or SAVE	alert all bootp community concentrator device group[3] host login module_port schedule scripts security [2] terminal threshhold[3] tftp [2]		
SET ALERT	authentication change console_display [4] filter hello port_filter [4] port_up_down filter [2, 3] screen script		disable, enable disable, enable disable, enable disable, enable disable, enable disable, enable disable, enable disable, enable disable, enable
	port_up_down		disable, enable, filter
SET BOOTP [3]	power_up_mode	disable, enable	
	server_ip_address	*ip address*	
SET CLOCK	*time* (hh:mm)	*date* (yy/mm/dd)	*day* (day of week)
SET COMMUNITY	all *name*	*ip address,* all	all, oldall, oldtrap, read_oldtrap, read_only, read_trap, read_write, trap
SET CONCENTRATOR platform		8250-006, 8250-006_FT, 8250-017	

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Command	Parameters		
SET COUNTER	port_statistics	disable, enable	
SET DEVICE	beacon_recovery	disable, enable	
	beacon_timeout	*time* (0 to 100 seconds)	
	beacon_trunk_retry	*value* (0 to 255)	
	contact	*contact name*	
	default_gateway ip_address subnet_mask	*ip_address* *ip_address* *hex_mask*	all (EMM and TRMM) isolated (EMM) network_1 (EMM) network_2 EMM) network_3 (EMM) token_ring_1 (TRMM) token_ring_2 (TRMM) token_ring_3 (TRMM) token_ring_4 (TRMM) token_ring_5 (TRMM) token_ring_6 (TRMM) token_ring_7 (TRMM)
	diagnostics	disable, enable	
	dip_configuration	disable, enable	
	location	*location name*	
	monitor_contention	disable, enable	
	name	*device name*	
	password (EMM)	administrator user	*password* *password*
	reset_mastership	disable, enable	
	trap_receive [2]	disable, enable	
SET DOWNLOAD [2] network		1, 2, 3	

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Command	Parameters		
SET GROUP [3]	group1 to group8	mode	disable, enable
		name	*name*
		network	token_ring_1 (TRMM) token_ring_2 (TRMM) token_ring_3 (TRMM) token_ring_4 (TRMM) token_ring_5 (TRMM) token_ring_6 (TRMM) token_ring_7 (TRMM)
		port	*slot.port*
SET HOST	*host name*	*ip address*	
SET LOGIN [4]	administrator password super_user user access super_user		
SET MODULE	*slot*	autopartition_threshold	31_collisions 63_collisions 127_collisions 255_collisions
	slot	cable_impedance	100ohm, 150ohm
	slot connector 1 *slot* connector 2	network	ethernet_1 ethernet_2 ethernet_3 isolated_1 isolated_2
	slot	crossover	disable enable
	slot (EMM)	fifo_fill_level	7 8
	slot (TRMM)	locally_administered_address	*mac address*
	slot	low_light_warning	disable, enable

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Command	Parameters		
SET MODULE (continued)	*slot*	mac_address_type	burned_in locally_administered
	slot	mac_path	primary, secondary
	slot	master_network [3]	isolated token_ring_1 token_ring_2 token_ring_3 token_ring_4 token_ring_5 token_ring_6 token_ring_7 no_change
	slot	mastership_priority	1 to 10
	slot	module_bypass	bypass, insert
	slot	network	ethernet_1 ethernet_2 ethernet_3 fddi_1 fddi_2 fddi_3 fddi_4 isolated token_ring_1 token_ring_2 token_ring_3 token_ring_4 token_ring_5 token_ring_6 token_ring_7
	slot	per_port_counters_connector	1, 2
	slot	probe_mode	disable, enable
	slot	ring_speed	4mbps, 16mbps

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Command	Parameters		
SET PORT	*slot.*2	active_connector	db9, rj45
	*slot.*all *slot.port*	alert	disable, enable
	slot.port *slot.*all	alert_filter	disable, enable
	slot.port *slot.*all	collision	normal, alternate
	slot.port *slot.*all	half_step	disable, enable
	slot.port *slot.*all	high_power	disable, enable
	slot.port *slot.*all	link_integrity	disable, enable
	slot.port *slot.*all	low_light_warning	disable, enable
	slot.port mode *slot.*all mode	disable, enable disable, enable	
	slot.port mode *slot.*all mode	local, remote local, remote	
	slot.port mode *slot.*all mode	redundant non_redundant	*slot.port* *slot.port*
	slot.port mode *slot.*all mode	remote_diagnostics non_remote_diagnostics	
	slot.port mode	remote_failure_signaling	

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Command	Parameters		
SET PORT (continued)	*slot.port* *slot*.all	network	isolated ethernet_1 ethernet_2 ethernet_3 front_panel token_ring_1 token_ring_2 token_ring_3 token_ring_4 token_ring_5 token_ring_6 token_ring_7
	slot.port *slot*.all	personality	sddi, tpddi
	slot.port *slot*.all	receive_jabber	disable, enable
	slot.port *slot*.all	ring_speed	4mbps, 16mbps
	slot.port *slot*.all	sqe_test	disable, enable
	slot.port *slot*.all	squelch	low, normal
	slot.port *slot*.all	station_type	mac_present mac_not_present
	slot.port *slot*.all	type	master, slave
SET RMON	alarm	token_ring_(ml or ps)stat.1 rising *threshold event* falling *threshold event time trigger alarm_type*	
	event	log log_trap none trap	*community*
	host	interface *interface*	
	matrix	interface *interface*	
	ringstation	interface *interface*	

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Command	Parameters		
SET RMON (continued)	statistics	mac_layer promiscuous sourcerouting	
	topn_hosts	*host index* in_octets in_packets out_bcasts out_errors out_mcasts out_octets out_packets	*hh:mm*
SET SCHEDULE [3] 1 to 20, all	exclude_date include_date	*mm/dd,* holiday *mm/dd,* holiday	1 to 8, all 1 to 8, all
	exclude_day include_day	sunday monday tuesday wednesday thursday friday saturday	1 to 8, all 1 to 8, all 1 to 8, all 1 to 8, all 1 to 8, all 1 to 8, all 1 to 8, all
	mode	enable disable	1 to 8, all
	remove_date	*mm/dd*	1 to 8, all
	time	*hh:mm*	1 to 8, all
SET SCHEDULE HOLIDAY [3]		include date remove_date	all, mm/dd all, mm/dd
SET SCHEDULE STARTUP_REPLAY_TIME [3]		1 to 24 since_midnight	
SET SCHEDULE [3]	weekday weekend	include_day, remove_day include_day, remove_day	all sunday monday tuesday wednesday thursday friday saturday

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Command	Parameters		
SET SCRIPT[3]	1 to 8	delete insert name overwrite	1 to 15 1 to 15 *name* 1 to 15
SET SECURITY [3]	autolearn [2]	*slot.port* *slot.*all	capture disable enable
		slot.port *slot.*all	download
		slot.port *slot.*all	mac_address *address*
		slot.port *slot.*all	mask disable enable
SET SECURITY AUTOLEARN[2]	*slot.port*	capture mask download mac_address	disable, enable disable, enable disable, enable *mac_address*
SET SECURITY PORT[2]	*slot.port*	mac_address mode	*mac_address* disable, enable
		action_on_intrusion	disable_and_trap disable_only no_action trap_only
		security_type	eavesdropping_only intrusion_only full
SET TERMINAL	auxiliary[4] console	baud	300, 1200, 2400, 4800, 9600, 19200, 38400
		data_bits	7, 8
		hangup	disable, enable
		parity	even, odd, none
		stop_bits	1, 2

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Command	Parameters		
SET TERMINAL (continued)	console auxiliary[4]	terminal_type	*terminal type*
	baud	300, 1200, 2400, 4800, 9600, 19200, 38400	
	data_bits	7, 8	
	hangup	disable, enable	
	parity	even, odd, none	
	prompt	*prompt*	
	stop_bits	1, 2	
	terminal_type	*terminal type*	
	timeout	*0 to 30 minutes*	
SET TFTP	file_name	*file name*	
	file_type	ascii, boot, flash	
	server_ip_address	*ip address*	
SET THRESHOLD[3] index number	action	script_only script_trap trap_only	1 to 8
	description	*description*	
	interval	*interval*	hours, minutes, seconds
	mode	disable, enable	
	network	broadcast_frames frames hard_errors multicast_frames octets soft_errors	

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Command	Parameters		
SET THRESHOLD[3] index number (continued)	port station	*slot.port* *mac address*	broadcast_frames errors frames multicast_frames octets
	value	*value*	
SET TRUNK *slot*	ring_in.*trunk* ring_out.*trunk*	cable_monitor	disable, enable
	ring_in.1 ring_out.1	compatibility_mode	disable, enable
	ring_in.2 ring_out.2	external_beacon_recovery	exists, non_exists
	ring_in.*trunk* ring_out.*trunk*	mode	disable, enable
	ring_in.*trunk* ring_out.*trunk*	mode	redundant, non_redundant
	ring_in.*trunk*	network_map	external, internal

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Command	Parameters			
SHOW	alert			
	bootp			
	clock			
	community			
	concentrator			
	counter	device module		all, *slot*
		network	errors traffic	
		port	errors traffic	*slot*.all *slot.port*
		port_statistics		
	counter station	*MAC Address* all		errors traffic[3]
	counter top_errors	by_frames by_mac_address		*# of stations* all
	counter top_receivers top_senders	by_frames by_mac_address by_octets		*# of stations* all
	device			
	download [2]	network		
	event_log			
	group [2]	all group1 to group8		
	host			
	log	event_log system_event trap_log		
	login			
	module	all *slot*		verbose, no_verbose

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Command	Parameters		
SHOW (continued)	network_paths	all ethernet fddi token_ring	
	port	*slot*.all *slot.port*	no_verbose verbose
	rmon	alarm event host matrix ringstation topn_hosts	control *index* all
		distribution promiscuous	data *index* all
		host data *control_index*	all by_creation_order by_mac_address mac_address *mac address*
		log data	all *index*
		matrix data *index*	all by_insertion_order *index* involving *mac address*
		ringstation data *index*	all order host_address *mac_address*
		statistics mac_layer promiscuous sourcerouting	control *index* data
		topn_hosts data *index*	*all* data_index

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Command	Parameters		
SHOW (continued)	schedule	all holiday 1 to 8 startup_replay_time weekday weekend	
	script	all 1 to 8	no_verbose, verbose
	security	autolearn intruder_list	
	security port	all *slot*.all *slot.port*	no_verbose, verbose
	terminal		
	tftp		
	threshold	1 to 10 all	
	trunk *slot*	all backplane_in backplane_out ring_in.*trunk* ring_out.*trunk*	no_verbose, verbose
SHOW NETWORK_ MAP	fddi token_ring	logical mac_address physical port	*mac address*
	ethernet	all mac_address *address* module *slot* port *slot.port*	by_frames, by_mac_address, by_octets, by_port, by_time

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Command	Parameters	
SMT_GET	access mac_timers path_timers user_data	
SMT_SET	access	permissive restrictive
	mac_tmax	*number* (10.4860 to 1342.1777 milliseconds)
	mac_tmin	*number* (0 to 5.24288 milliseconds)
	mac_treq	*number* (0 to 1342.1777 milliseconds)
	path_tvx	*number* (0.02048 to 5.24288 milliseconds)
	user_data	*data*
TELNET	*ip address* *telnet port* host name	*port number* 23

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