SynQor EBM Terminal Commands

Rev A, 27 April, 2017

The EBM external serial port uses 115.2kbaud, 8 data bits, no parity, and one stop bit. Commands can be sent, and output viewed, with any standard terminal emulator. To view user text, set the terminal emulator for local echo. All transmitted commands must be terminated with a line feed character (ASCII 10). The interface is not case sensitive.

The EBM will transmit a prompt "SynQor>" to the terminal after each command. To execute a command, simply transmit the required ASCII text, terminated by a line feed character.

Command Summary

Command	Description
?	Display list of available terminal commands.
ALARM DISABLE	Disable audible alarm output. (Updates non-volatile memory.)
ALARM ENABLE	Enable audible alarm output. (Updates non-volatile memory.)
ALARM SILENCE	Silence currently active audible alarms.
ANALOG IN?	Display control board analog signal levels.
ASTART DISABLE	Disable auto-start mode. (Updates non-volatile memory.)
ASTART ENABLE	Enable auto-start mode (default factory setting).
BATT INFO	Display manufacturer data and code revisions for internal battery pack.
BATTERY?	Display internal measurements and status for internal battery pack.
BAUDRATE X	Adjust baudrate of serial port.
CHARGER?	Display status of Charger from EBM system.
CHG LIMIT X	Manually set Charging Wattage Level, x = 50 to 500
CODE?	Output code revision information for internal components.
DEBUG OFF	Disable automatic output of source data on startup (default factory setting).
DEBUG ON	Enable output of "SOURCE LOG" output on initial power application.
DIGITAL IN?	Display state of internal digital inputs of EBM control board.
EMAIL RESTORE	Restore Email alert notifications to factory default settings.
FAN SERVICE	Execute fan service sequence immediately (cycles through fan speed settings).
FAN SET X	Manually set fan speed, x=0 to 4.
FAN STATUS?	Display inputs to fan controller.
FAND DISABLE	Disable execution of fan diagnostics every 24 hours.
FAND ENABLE	Enable execution of fan diagnositcs every 24 hours (default factory setting).
FANS?	Display fan speeds and input voltage.
INPUTS?	Display status of inputs to EBM system.

SynQor EBM Terminal Commands

Command	Description
LOG OFF	Terminate SOURCE LOG status and switchover event output.
MODEL?	Display EBM system model name.
NET RESTORE	Restore network configuration settings to factory defaults.
NETWORK?	Display Ethernet IP address and MAC address.
OUTPUT DISABLE	Shutdown output of EBM system, reverting to standby or off state.
OUTPUT ENABLE	Enable output of EBM system.
OUTPUTS?	Display status of output from EBM system.
RESTART X	Shutdown output immediately, re-enable output after x seconds.
RUNTEST X	Run internal built-in test routine.
SET STORAGE X	Manually set battery storage level, x = 1 to 99.
SHUTDOWN X	Shutdown output after x seconds.
SNMP RESTORE	Restore SNMP configuration to factory defaults.
SOURCE LOG	Begin real-time output of power source status and switchover events.
SOURCES?	Display status of each defined source for the EBM system (DC and battery).
STARTUP X	Enable outputs after x seconds.
SYNCCON OFF	Disable synchronized start / stop / restart behavior.
SYNCCON ON	Enables synchronized start / stop / restart behavior (default factory setting).
TEMPS?	Display reported temperatures for internal subsystems.
TRAP LOG	Output log of communication board bootup events.

Command Details

Command: ?
Description: Display list of available terminal commands.
Sample Output:

```
SynQor>?
ALARM DISABLE
ALARM ENABLE
ALARM SILENCE
:

SynQor>
```

Discussion: Output response format is a single row for each command available to the user.

Command: ALARM DISABLE
Description: Disable audible alarm output. (Updates non-volatile memory.)
Sample Output:
```
SynQor>ALARM DISABLE
Flash Updated.

SynQor>
```
Discussion: This command will prevent the audible beeper from ever activating for any condition. Setting will be saved in non-volatile memory, and will persist until reversed with the "ALARM ENABLE" command.

Command: ALARM ENABLE
Description: Enable audible alarm output. (Updates non-volatile memory.)
Sample Output:
```
SynQor>ALARM ENABLE
Flash Updated.

SynQor>
```
Discussion: This command will allow the audible beeper to sound during alarm conditions. This is the default factory state. See User Guide, "Fault Conditions" section for a description of audible alarms. The setting will be saved in non-volatile memory, and will persist until reversed with the "ALARM DISABLE" command.

Command: ALARM SILENCE
Description: Silence currently active audible alarms.
Sample Output:
```
SynQor>ALARM SILENCE
Alarms Silenced.

SynQor>
```
Discussion: When there are current active alarms, issuing this command will silence the beeper. New alarm states that occur after the silence command will re-activate the audible beeper. This command is equivalent to holding up the front panel switch during operation. The beeper generates a brief two-toned signal when the silence command is issued.

Command: ANALOG IN?
Description: Display control board analog signal levels.
Sample Output:

```
SynQor>ANALOG IN?
5V Supply = 5.13 V
External DC Input = 2.1 V
Cold-start Voltage = 28.9 V
Main Bus Voltage = 29.1 V
Fan Current = &H0203
Fan Voltage = 0.0 V
Battery Voltage = 30.1 V
Motherboard Temperature = 26 C
DC1 Output Voltage = 30.0 V
Bus Switch Temperature = 27 C
DC Out Current = 0 A
BQ Diode Fwd Drop = &H0026

SynQor>
```

Discussion: Command displays translated values from ADC measurements on EBM control board. No user action based on these outputs should be taken.

Command: ASTART DISABLE
Description: Disable auto-start mode. (Updates non-volatile memory.)
Sample Output:

```
SynQor>ASTART DISABLE
Flash Updated.

SynQor>
```

Discussion: Command disables auto-start mode. With auto-start disabled, when the EBM receives input power, it will enter standby mode. In standby mode, the terminal interface is active, but the output will not enable until the user takes action to enable the output, either through a terminal command, the front panel switch, or a rear panel I/O signal. This setting is stored in non-volatile memory.

Command: ASTART ENABLE
Description: Enable auto-start mode (default factory setting).
Sample Output:
```
SynQor>ASTART ENABLE
Flash Updated.

SynQor>
```
Discussion: Command enables auto-start mode. The factory default is this mode enabled. In auto-start mode, when the EBM first receives input power from an off state, it will either enter the Standby State or the On state, depending upon which mode it was in when it last lost input power. If it is returning to the On state, and DC input power is NOT available (AC input only), it will wait until the battery has charged to approximately 25% capacity before enabling the output. The auto-start mode can be disabled with the "ASTART DISABLE" command. Note that auto-start will only enable the output from a powered down state; if the output disables due to a fault or user action, but input power is still present, the auto-start setting is not applicable.

Command: BATT INFO
Description: Display manufacturer data and code revisions for internal battery pack.
Sample Output:
```
SynQor>BATT INFO
Manufacturer: SynQor, Inc.
Device Type: 8SnP UPS Battery
Chemistry: LiPo
Num ID Code Rev
0 &HFFFF 54, 43
1 &H6D99 38, 25
2 &H0058 38, 25
3 &H6D9E 38, 25
4 &H6D9C 38, 25
5 &H0063 38, 25
6 &H6D9F 38, 25
7 &H005A 38, 25
8 &H6D9B 38, 25
9 &H0062 38, 25
10 &H6D9A 38, 25
11 &H0057 38, 25
12 &H0061 38, 25
13 &H6D9D 38, 25
14 &H0059 38, 25
```

Discussion: Command displays data and code revisions read from the internal battery pack. No user action based on these outputs should be taken. The code revision data gives one row (Row 0) for the front panel board, and then an additional row for each detected battery string.

Command: BATTERY?
Description: Display internal measurements and status for internal battery pack.
Sample Output:

```
SynQor>BATTERY?
Num Strings = 14
Voltage = 33342 mV
Current = 480 mA
SBS Status = &H4000
Battery Temperature = 24.8 C
Temp Severity = 2
Requested Chg V = 33200 mV
Requested Chg I = 250 mA
Charge vs. Full = 99 %
Charge vs. Designed = 99 %
Battery Flags = 0x0000
Comm Fault = &H0000
Min to Empty = >65535 min
Min to Full = 12 min
Min at Present Power = 366 min
Charge Cycles = 11

SynQor>
```

Discussion: Displays summary of telemetry data from the internal battery. All measurements are as reported or estimated by the internal battery monitoring circuitry. Notes on data values:
Current values are positive for charging current, negative for discharge currents.
SBS Status is compliant with the SBS Standard.
Temp Severity: 0 = Too cold to discharge, 1 = Too cold to charge, 2 = Normal, 3 = Too hot to charge, 4 = unused, 5 = Too hot to discharge
"vs. Full" is measured relative to the current charge capacity of available strings in the battery pack; "vs. Designed" is relative to the designed capacity of the battery pack.
The "Min to Empty" and "Min to Full" parameters are based on the current charge or discharge current and estimated pack capacity. The "Min at Present Power" shows the predicted runtime based on the present delivered power and battery capacity if the AC and DC inputs failed.

Command: BAUDRATE X
Description: Adjust baudrate of serial port.
Sample Output:

```
SynQor>BAUDRATE 2400
Baud rate updated to <2400>, Power cycle required to apply change.

SynQor>
```

Discussion: Baudrate setting for the terminal interface can be modified; note that the setting does not take effect until input power is removed from the EBM and there is a complete power-on reset. The valid range of baud rates is as follows:
1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, or 115200.

Command: CHARGER?
Description: Display status of Charger from EBM system.
Sample Output:
```
SynQor>CHARGER?
Charger Voltage Reported = 32.718 V
Charger Current = 0.214 A
Charger Power = 7 W
Charger Temperature = 39.37 C
Charger Status = 0x0504
Charger Temperature 2 = 35.68 C
Charger Input Voltage = 26.960 V
Charger Rev = 0x3A00
Charger Power Limit = 500 W

SynQor>
```
Discussion: Command displays parametric data from the internal battery charger. There is no user action to take based on this data.

Command: CHG LIMIT X
Description: Manually set Charging Wattage Level, x = 50 to 500
Sample Output:
```
SynQor>CHG LIMIT 50
Flash Updated.

SynQor>
```
Discussion: Sets approximate maximum charger power level. Valid power range is 50-500, value is in Watts. The default maximum charger level is 500 Watts. In certain applications, the user may want to reduce the maximum level to reduce power draw from the input AC or DC sources.

Command: CODE?
Description: Output code revision information for internal components.
Sample Output:
```
SynQor>Code?
Control Rev = 8, 11
Charger Rev = 0x3A00
Comm Code Rev = 3, 11

SynQor>
```
Discussion: Outputs reported code revision of internal modules.

Command: DEBUG OFF
Description: Disable automatic output of source data on startup (default factory setting).
Sample Output:
```
SynQor>DEBUG OFF
Flash Updated.

SynQor>
```
Discussion: Disables automatic output of "SOURCE LOG" command after intial power application. This is the default factory setting. This command will reverse the action of the "DEBUG ON" command.

Command: DEBUG ON
Description: Enable output of "SOURCE LOG" output on initial power application.
Sample Output:
```
SynQor>DEBUG ON
Flash Updated.

SynQor>
```
Discussion: Enables automatic output of "SOURCE LOG" command after intial power application for debugging purposes. Issuing the "DEBUG OFF" command will revert to standard operation.

Command: DIGITAL IN?
Description: Display state of internal digital inputs of EBM control board.
Sample Output:
```
SynQor>DIGITAL IN
AC input bad = Low
External Input Alarm = High
Front Switch UP = Low
Remote Start = Low
Front Switch DOWN = Low
Output Cable Present = Low

SynQor>
```
Discussion: Command displays translated values from digital inputs of EBM control board.

Command: EMAIL RESTORE
Description: Restore Email alert notifications to factory default settings.

Sample Output:
```
SynQor>EMAIL RESTORE
Factory Email Defaults Restored.

SynQor>
```
Discussion: Command restores settings for Email alerts to factory defaults (no alerts transmitted).

Command: FAN SERVICE
Description: Execute fan service sequence immediately (cycles through fan speed settings).
Sample Output:
```
SynQor>FAN SERVICE
Fan service initiated

SynQor>
```
Discussion: The fan service sequence cycles the fans through their different speed ranges, and compares the measured fan RPM to the factory-new levels. Significant speed degradation will be indicated by a "fan service required" LED on the front panel. Note that the fan service sequence will not slow the fans down below the speed dictated by the internal temperatures. The fan service sequence normally runs automatically after every 24 hours of continuous operation, or more frequently if a fan speed degradation condition is detected. Fan service sequence will not run on battery power.

Command: FAN SET X
Description: Manually set fan speed, x=0 to 4.
Sample Output:
```
SynQor>FAN SET 1
Fan speed set.

SynQor>
```
Discussion: Manually increase the fan speed. Fans will not slow to a speed below that dictated by internal temperatures. Manually setting a higher fan speed will modify the EBM Cooling System Indicator LED (F1) as indicated in the User Guide.

Command: FAN STATUS?
Description: Display inputs to fan controller.

Sample Output:
```
SynQor>FAN STATUS?
Current Speed: 0
Last Trigger Up:
Decel Timer: &H0000 &H0000
Var:   value / thresh_down / thresh_up / type
Manual Control: &H0000 / &H0000 / &H0000 / higher value -> speed up
Diag Timer: &H00AB / &H4381 / &H4380 / higher value -> speed up
Control PCB: &H0143 / &H0000 / &H01AD / higher value -> speed up
Battery: &H0BAD / &H0000 / &H0C08 / higher value -> speed up
Charger: &H024F / &H0000 / &H0460 / higher value -> speed up
Charger: &H0205 / &H0000 / &H0460 / higher value -> speed up
Bus Switch: &H014E / &H0000 / &H01AD / higher value -> speed up

SynQor>
```

Discussion: Displays inputs and status of the fan speed controller. The *Last Trigger Up* reflects which input to the controller last caused an increase in the fan speed. The list of fan controller inputs indicates which modules are online and providing triggers to control the fan speed. For each input, the present value is listed, as well as the thresholds applied to that value to cause a trigger to a higher or lower fan speed. *Manual Control* is the terminal interface and *Diag Timer* is the interval counter for the fan service sequence. Some inputs may be omitted from the list if that subsystem is not active.

Command: FAND DISABLE
Description: Disable execution of fan diagnostics every 24 hours.
Sample Output:
```
SynQor>FAND ENABLE
Flash Updated.

SynQor>
```

Discussion: Disables automatic execution of the fan diagnostic sequence after every 24 hours of operation. If the fan diagnositic sequence is disabled, a transient fan speed fault may not be cleared automatically.

Command: FAND ENABLE
Description: Enable execution of fan diagnositcs every 24 hours (default factory setting).
Sample Output:
```
SynQor>FAND ENABLE
Flash Updated.

SynQor>
```

Discussion: Allows execution of the fan diagnostics automatically based on internal timing intervals. The fan diagnostics cycle the fan through the various speeds and compares detected fan RPM to factory-new values.

Command: FANS?

Description: Display fan speeds and input voltage.

Sample Output:

```
SynQor>FANS?
Fan0 RPM = 16313
Fan1 RPM = 16538
Fan Voltage = 12.0 V
Fan Status / State = &H4400
Fan Diag Timer [h:mm] = 23:45

SynQor>
```

Discussion: Reports measured fan speed and applied voltage. The Fan Status / State variable provides additional information about the fan status. *Fan Status* bit decoding:

b15-13: Fan speed value from 0-4. In sample, speed b15-13=010, indicating speed 2
b11: Machine status is *Faulted* (waiting for battery or DC input available)
b10: Machine status is *Running*
b9: Machine status is *Starting* (waiting for battery to charge to 25% or DC input)
b8: Machine status is *Off*
b7: Fan service is required
b6: Fan diagnostics mode active

The Fan Diag Timer variable displays the time until the next scheduled fan diagnostics routine.

Command: INPUTS?
Description: Display status of inputs to EBM system.
Sample Output:

```
SynQor>INPUTS?
Ext DC In Voltage = 2.6 V
Fault Register = &H0100
Aux Status = &H0084
Non-volatile Config = &H7E31

SynQor>
```

Discussion: Reports status of inputs to EBM system. The *Fault Register* decoding is as follows:
b15: Internal Bus Average Voltage Low
b14: Remote Shutdown requested from back panel
b13: Remote start requested from back panel
b12: Front panel switch pressed down (off)
b11: External DC Input Fault
b10: Software Disable Command
b9: Software Enable Command
b8: AC-Input Good
b6: Internal Bus High
b5: Internal Bus Low
b4: Front panel switch pressed up (on / cold-start)
b3: Internal 5V supply High
b2: Internal 5V supply Low
b1: Over-temperature Warning
b0: Over-temperature condition

The Aux Status decoding is as follows:
b11: Output Short Circuit
b7: Output Cable Present
b6: EBM System Overload
b2: Ethernet Interface Active

The Non-volatile Config decoding is as follows (relevant bits only) :
b5: Auto-Start Status
b3: Fan Diagnostics Disabled
b2: Audible Alarm Disabled
b1: Debug Mode Status

Command: LOG OFF
Description: Terminate SOURCE LOG status and switchover event output.
Sample Output:

```
SynQor>LOG OFF

SynQor>
```

Discussion: Command stops SOURCE LOG or DEBUG ON status output to the terminal.

Command: MODEL?
Description: Display EBM system model name.
Sample Output:
```
SynQor>MODEL?
EBM-1000-2U-28-3000-W-E00

SynQor>
```
Discussion: Command displays the complete model name of the system.

Command: NET RESTORE
Description: Restore network configuration settings to factory defaults.
Sample Output:
```
SynQor>NET RESTORE
Factory Networking Defaults Restored.
SynQor>
```
Discussion: Command restores settings for network configuration to factory defaults.

Command: NETWORK?
Description: Display Ethernet IP address and MAC address.
Sample Output:
```
SynQor>NETWORK?
IP Address = 169.254.1.1
MAC Address = D8:80:39:12:33:4A
CAN Box ID = 0
CAN Box Type = &H0020

SynQor>
```
Discussion: Command displays the device pre-set MAC address and currently active IP address.

Command: OUTPUT DISABLE
Description: Shutdown output of EBM system, reverting to standby or off state.
Sample Output:
```
SynQor>OUTPUT DISABLE
Output Disabled.

SynQor>
```
Discussion: Disables output if currently active. This terminal command is equivalent to holding down the front panel switch.

Command: OUTPUT ENABLE
Description: Enable output of EBM system.
Sample Output:
```
SynQor>OUTPUT ENABLE
Output Enabled.

SynQor>
```
Discussion: Enables output. This terminal command is equivalent to pushing the front panel switch upwards.

Command: OUTPUTS?
Description: Display status of output from EBM system.
Sample Output:
```
SynQor>OUTPUTS?
Total Power Out = 0 W
DC Output Voltage = 29.832 V
DC Output Current = 0.00 A
Charger Current = 0.164 A
Alarm Status = &H0000
Fan Status / State = &H0400
BIT Result = <n/a>
Last Fault Code = Initial boot

SynQor>
```
Discussion: Reports telemetry data on Output. *The Alarm Status* variable details the state of the audible alarms:
b7 : Audible alarm is muted (not disabled)
b3 : Four beep alarm active
b2 : Three beep alarm active
b1 : Two beep alarm active
b0 : One beep alarm active
The "FANS?" Command description details the *Fan Status / State* register. The *BIT Result* variable displays the last result from a built-in test routine, if applicable.

Command: RESTART X
Description: Shutdown output immediately, re-enable output after x seconds.
Sample Output:
```
SynQor>RESTART 5
Timed reboot started.

SynQor>
```
Discussion: If output is enabled, it will be immediately disabled. After the requested delay, output will enable. Output will enable whether or not it was in an enabled state when the command was first issued. Maximum permissible value for restart time is 10,737,418 seconds, approximately 4 months.

Command: RUNTEST X
Description: Run internal built-in test routine.
Sample Output:
```
SynQor>RUNTEST 3
General System Test Started.

SynQor>Test Complete. Result=&H1002
Test Passed.

SynQor>
```
Discussion: Runs internal built-in test routine. Legal values for x:
0 or 2 = abort progress
3 = run general systems test; verify internal bias voltages, fans voltage inputs and outputs
4 = quick battery test: verifies proper battery operations
5 = deep battery test: switches to battery power and runs battery down to 20%
7 = perform battery cycle
8 = set battery to storage level; storage level can be set with *SET STORAGE x*
9 = LED test

Command: SET STORAGE X
Description: Manually set battery storage level, x = 1 to 99.
Sample Output:
```
SynQor>SET STORAGE 30
Flash Updated.

SynQor>
```
Discussion: Sets Battery power storage level as a percentage of full charge. The RUNTEST command can be used to send the battery to the storage level if a load is connected to the output. Valid storage level is 1-99.

Command: SHUTDOWN X
Description: Shutdown output after x seconds.
Sample Output:
```
SynQor>SHUTDOWN 5
Timed shutdown started.

SynQor>
```
Discussion: Output will be disabled after the requested delay time. Maximum permissible value for shutdown delay is 10,737,418 seconds, approximately 4 months.

Command: SNMP RESTORE
Description: Restore SNMP configuration to factory defaults.
Sample Output:
```
SynQor>SNMP RESTORE
Factory SNMP Defaults Restored.
SynQor>
```

Discussion: Command restores SNMP configuration to factory defaults (SNMP disabled).

Command: SOURCE LOG
Description: Begin real-time output of power source status and switchover events.
Sample Output:
```
SynQor>SOURCE LOG
SynQor>[…continuous debug output will follow]
```

Discussion: Source log output is useful to monitor input source switching and detected faults with supervision from SynQor factory personnel. To terminate source logging, use the LOG OFF command.

Command: SOURCES?
Description: Display status of each defined source for the EBM system (DC and battery).
Sample Output:
```
SynQor>SOURCES?
External DC Input
- Faults: &H0101
- Ok for load: NO
- Ready for load: NO
- Loaded: NO
- Fault Count: 0
Internal Battery
- Faults: &H4040
- Ok for load: NO
- Ready for load: NO
- Loaded: NO
- Fault Count: 0

SynQor>
```

Discussion: Displays summary of each available input source and whether they appear ready to accept load power.

Command: STARTUP X
Description: Enable outputs after x seconds.
Sample Output:
```
SynQor>STARTUP 5
Timed startup begun.

SynQor>
```
Discussion: Output will be enabled after the requested delay time. Maximum permissible value for enable delay is 10,737,418 seconds, approximately 4 months.

Command: SYNCCON OFF
Description: Disable synchronized start / stop / restart behavior.
Sample Output:
```
Synqor>SYNCCON OFF
Module will not synchronize On/Off/Restart via CONFIG port.

SynQor>
```
Discussion: Disables synchronized start, stop, and restart behavior between multiple EBM devices interconnected via the CONFIG port.

Command: SYNCCON ON
Description: Enables synchronized start / stop / restart behavior (default factory setting).
Sample Output:
```
SynQor>SYNCCON ON
Module will synchronize On/Off/Restart via CONFIG port.

SynQor>
```
Discussion: Enables synchronized start, stop, and restart behavior between multiple EBM devices interconnected via the CONFIG port. This is the factory default condition. This setting can be overridden either by the "SYNCCON OFF" command, or an external jumper on a CONFIG port pin.

Command: TEMPS?
Description: Display reported temperatures for internal subsystems.
Sample Output:
```
SynQor>TEMPS?
Control Brd Temp = 29 C
Charger Temperature = 37.12 C
Charger Temperature 2 = 32.31 C
Battery Temperature = 25.9 C
Bus Switch Temperature = 31 C

SynQor>
```
Discussion: Displays measured temperature for installed components. Note that unpowered components will display invalid results. For example, if the EBM is running on battery, the charger temperature is not available.

Command: TRAP LOG

Description: Output log of communication board bootup events.

Sample Output:

```
SynQor>TRAP LOG
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0A32C Time: Jan 01, 1970 00:00:10 UTC
Bootup, RCON: &H0083 Addr: &H8AE0ABAC Time: Jan 01, 1970 00:00:10 UTC

SynQor>
```

Discussion: Displays a list of bootup or reset events on the EBM Ethernet communication board. The displayed timestamp relies on an SNTP time being available within 10 seconds of the boot event; if it is not available, 1/1/1970 will be displayed, as above. The boot log is only provided for factory debugging of potential issues.