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## DDS1242 - Pinging remote machines

dS1242 System Configuration

Status  
Network  
TCP/IP  
Relays  
Input/Output  
Ping  
Email  
Peer to Peer  
Sequencer  
Scheduler  
Counter/Timer  
Application Page

Ping No. 1,2

Remote Host example.com  
Repeat Time 10  
Attempts 3  
Delay 3  
Time uS 80698

Remote Host 192.168.1.2  
Repeat Time 10  
Attempts 3  
Delay 3  
Time uS 1297

Ping  
Ping to up to four remote hosts.  
Used to test if a remote system is alive and responding.

Update Pending

The ping module allows you to check other machines are still online and responding. Ping threads are only started a boot time if the Repeat Time is greater than zero. Also DNS lookup is only performed once at boot time if the Repeat Time is greater than zero. So after making changes, wait for the Update Pending light to go out (5 seconds after last change) and reboot the module.

### Repeat Time

This is how often the ping is repeated, in seconds. 10 sends a ping every 10 seconds.

### Attempts

The number of failed pings (no response) before failure is reported by setting the ping time to zero. If set to 5 it will take 5 consecutive failed responses to trigger a failure. If a response is received, say on the 3rd try, the attempt counter is reset to 5.

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### Delay

This is the delay between detecting the failed responses and re-starting the pings. It is also the startup delay before beginning pings. Its purpose is to give the target machine time to boot up, or reboot.

### Ping Time

The time between sending the ping message and receiving the response. Timing is given in uS, but subject to a 1-2mS jitter.

### Rebooting the target machine

A relay can be used to reboot the target machine. This may be by connecting to its reset input, or even removing and restoring power. The details of this are left to you. In this example we are going to generate a reset pulse by pulsing Relay1 for 2 seconds when the ping time goes to zero. To do this enter 2000 in the pulse/follow box and P1<1 in the Set Relay box.

Relay Name	Relay 1
Pulse/Follow	2000
Set Relay	P1<1
Reset Relay	
Toggle Relay	
Power-up Restore	<input type="checkbox"/>

If you are going to reboot by removing power, you might want a longer pulse, say 30000mS or 30 seconds.

You might also send a notification email:

From Address	noreply@dscript-mail.uk
Email No.	1
Email Address	yourname@example.com
Subject	Machine 1 failed
Trigger	P1<1

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