## Monitoring SymNet Hardware Diagnostics

SNMP (Simple Network Management Protocol) is an application-layer protocol that facilitates the exchange of information between network devices. Third-party SNMP software includes programs such as Aprisma Spectrum, CA UniCenter, HP OpenView, and IBM Tivoli.

Using SNMP an IT manager can monitor various pieces of hardware, all from different manfacuters, for things such as IP info, network bandwith and resources used, and even the current health of hardware and its components. Often times, SNMP allows an IT manager to address a problem before it actually happens, or when hardware fails to be able to pinpoint the exact unit and where it is located within a venue or network.

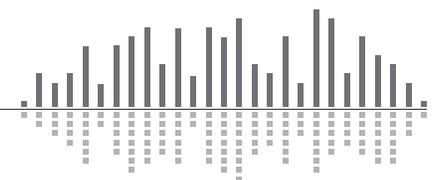Currently, SymNet Composer hardware does not support SNMP, but there are options that are worthwhile to consider.

First, SymNet Composer adds a 'Diagnostic' module within the Design View of every DSP in the system. The various features the diagnostic module displays can help with detemining the health of a unit before or after a failure, the IP address and DHCP lease info, processor temp, and control indication.
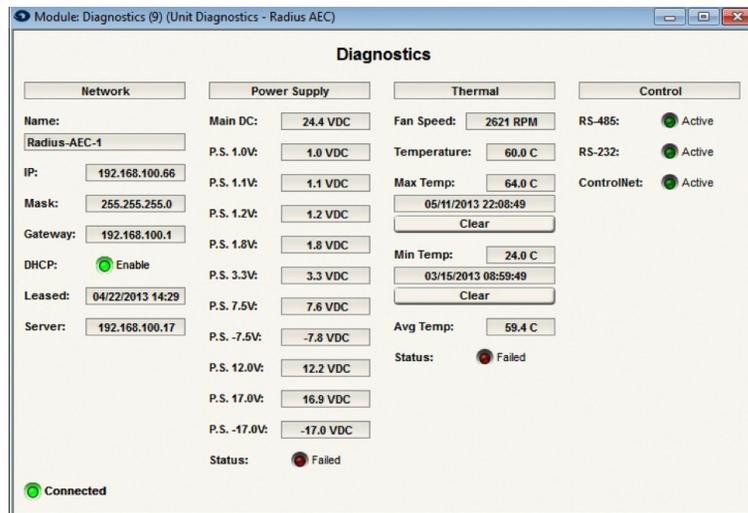
With the release of SymNet Composer 1.2 the diagnostic module can be assigned controller numbers to most of the fields related to a units health and operation. Controller numbers can be assigned to individual fields one by one, or all at once by right clicking the diagnostic module and choosing "Assign All Unassigned Controls to Controllers (#-#)".
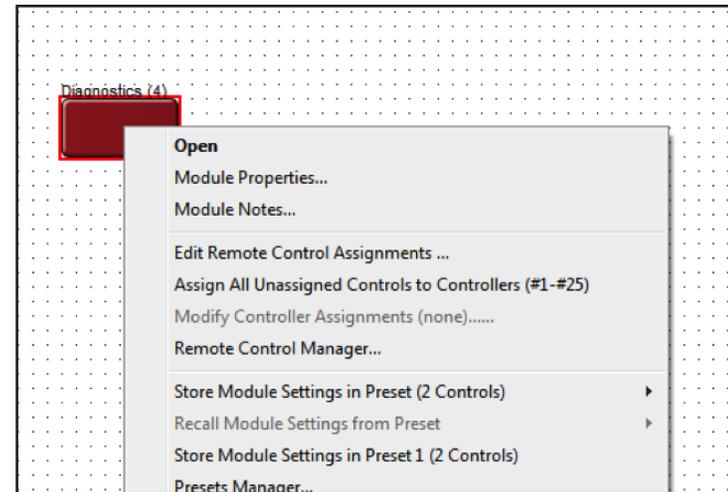
Once controller numbers have been assigned to the diagnostic fields, the module will appear like this if 'Tools->Super-impose Assigned Controller Numbers' is checked.

These numbered fields can now be monitored for their state with remote controls such as an ARC-2e, SymVue, or with a smart device using ARC-WEB.

Additionally, if SNMP is required, many third party control systems such as Crestron or AMX offer full SNMP monitoring functionality. This means that the control system can monitor the diagnostic fields for all SymNet DSP hardware across the network, acting as the SNMP intermediary between the SNMP monitoring software and SymNet system.

For more info on SNMP monitoring using Crestron, click to following link:

http://www.crestron.com/downloads/pdf/featured_articles/169/Bridging_AV_And_IT.pdf

For more info on SNMP monitoring using AMX, click to following link:

http://www.prnewswire.com/news-releases/amx-extends-netlinxtm-with-javatm-for-industrys-first-dual-language-control-system-72165242.html