AtlasIED Application Note

IP Addresses Required for AtlasIED Devices

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All AtlasIED network devices require at least one IP address. For non-audio devices (e.g., logic input/output, relays), only the one control IP address is required. For audio devices that employ the CobraNet or Dante high-definition audio, often a second or third IP address is required. For these devices, there often is an internal switch chip which connects both the control processor and an audio co-processor employing a CobraNet/Dante chipset or module. Audio devices that have only one IP address are designed such that the control processor talks through the audio co-processor using a bridging technology so only one IP address is required, or the audio and control are handled by the same chip internally.

This application note identifies the number of IP addresses and network switch ports required for each device to assist in system design. In the table below, "Switch Ports" is the (minimum) number of network switch ports required to get the device to fully function on the network. For most devices, this is one. Some devices have a second, redundant network connection for "fail-over" capabilities and thus the physical port count on the device may differ from this column.

Network Device	Switch Ports	IP Addresses
IP100 – no HD audio	1	1
IP108/IP116 – HD (CobraNet or Dante) or equivalent server-based controller with a sound card	2	2
Touch Panel Mic Station (CobraNet or Dante)	1	2
IEDA528 12-Button Mic Station (CobraNet)	1	1
IEDA524 4-Button Mic Station (CobraNet)	1	1
IPCSD1/IPCSD4 Mic Station (Dante)	1	1
1522AIOLR Audio/Logic IO	1	1
1544AIO-D Audio I/O	1	1
T9160 Amplifier Frame (CobraNet)	1	1
T112 Amplifier Frame (CobraNet or Dante)	1	2
DNA2404C Amplifier Frame (CobraNet)	1	1
DNA2404D Amplifier Frame (Dante)	1	3
1581NA/1542NA Network Amplifier (CobraNet or	1	1

Network Device	Switch Ports	IP Addresses
Dante)		
1544ZOP (Dante)	1	3
Future 1544ZOP-C (CobraNet)	1	2
IPX Speaker Device	1	1
1522LR Logic/Relay	1	1
1516LI Logic Input Module	1	1
1516ALI/1516BLI Class A/B Loop Interface	1	1
1544BAS Backup Amplifier Switcher	1	1
GDS 4WPlayer2 (DDC)	1	1
IPUSBD-8/-16 (Dante)	1	1
1100DAB (CobraNet or Dante)	1/network* 2 total	1/network* 2 total

* Each "side" of the DAB connects to a different network (VLAN, switch, etc.).