



BROADBAND CONNECTION INFORMATION

General Information:

- Once an online game connects via Ethernet, the internal cellular modem is automatically disabled, and the Sprint Wireless Communications Fee is waived.

Preferred Types of Broadband Connections:

- DSL
- High Speed Cable
- T1 or T3

Non-Preferred Types of Broadband Connections:

These types of connections have high latency durations that cause GTL & SSBC games to time out when attempting communications with the IT Net Servers.

- Wireless Internet Services (utilizes a Receiver Module on the roof of structure).
 - Often referred to as “Line of Sight Connections.” This connection type has only worked when the location is VERY close to the Emitter Module.
- Satellite Internet Services

Troubleshooting Connection Failures

- ***ALL GTL & SSBC UNITS MUST BE RESET AFTER ETHERNET IS CONNECTED IN ORDER TO UTILIZE THE BROADBAND CONNECTION*.**
- Verify that you have a Straight Through CAT-5 Cable and not a Crossover Cable.
- If utilizing a hand-cripped cable, be sure to verify it with a cable tester. A laptop can be used to check the cable as well by simply surfing the web. It is recommended to use a store-bought cable.
- Check for link lights at router and or switch / hub.
- Try Cold Booting the LAN.
 - Turn off ALL equipment for at least one minute. Systematically turn each piece of hardware on one at a time starting with the modem, then the router (and switch or hub if being used), then end hardware units.
- If ports need to be opened in the router configuration settings, they are listed for each game type below:
 - Ports for Golden Tee LIVE = 3000 to 3002
 - Ports for Silver Strike Bowlers Club = 3100 to 3102
- For further information depending specifically on connection type, reference the information listed below.



DSL Info

- Username and Password **MUST** be programmed into the router configuration (PPPOE Settings) so that all hardware equipment connected to the LAN can communicate whenever needed.
- To enable Static IP Addressing, you must disable DHCP and manually type in the Static IP Address, Gateway, and NetMask in the Ethernet Configuration Settings Menu. This menu can be found in the IT Net Settings Menu, then the Communication Settings Menu. These three addresses can be obtained by accessing your router configuration menu.
- In the event that equipment connected to the LAN is unable to communicate, the connection may need to be reset due to a timeout by the ISP.

High Speed Cable Info

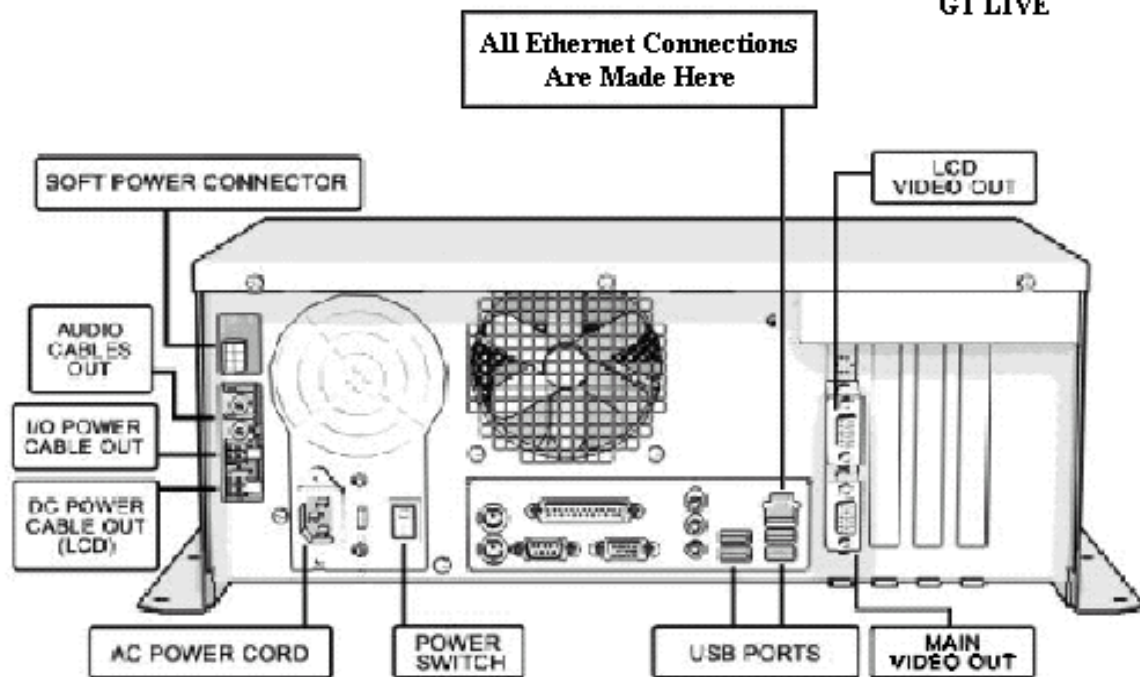
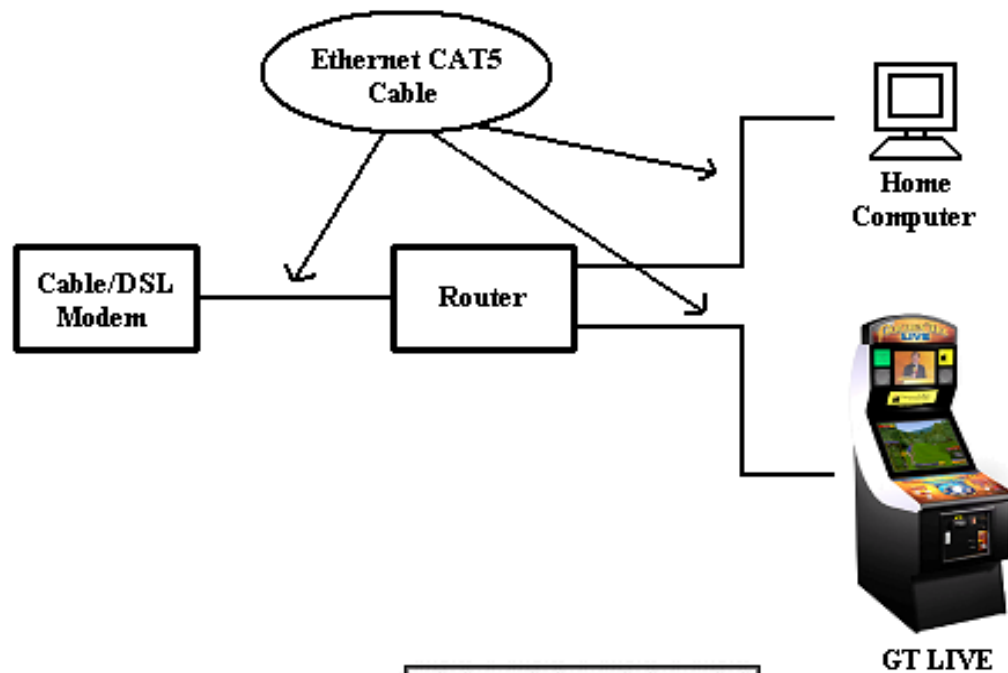
- These connections are always on 24 / 7.
- There is no username or password to configure in the router settings. All hardware equipment should always be able to connect to external networks.
- Can be run straight from the modem to the game without the use of a router, but **only** if the game is the only piece of equipment connected.
- To enable Static IP Addressing, you must disable DHCP and manually type in the Static IP Address, Gateway, and NetMask in the Ethernet Configuration Settings Menu. This menu can be found in the IT Net Settings Menu, then the Communication Settings Menu. These three addresses can be obtained by accessing your router configuration menu.

Using Wireless (Wi-Fi or WLAN) A / B / G / N Networks

- The internal wireless modem in our online games **cannot** access these types of networks, as it is a cellular modem **only**.
- Either a Wireless Gaming Adapter or a Wireless Ethernet Bridge must be connected to the game to utilize an internal WLAN for communications.
 - These devices **MUST** be configured on a PC using the installation disk provided by the manufacturer **prior** to being installed in the game.
 - If there are any security settings on their WLAN, the device will need to be configured accordingly (i.e. WEP Encryption)
- Wireless USB Adapters and or PCI Wireless Network Cards **will not** work for this purpose because there is no way to install the necessary drivers.
- MAC Address Filtering: The MAC Address for the wireless device can be detected from the router side of the network through viewing the DHCP Client List with security features turned OFF. From that point it can easily be saved to an “Approved MAC Address List”, followed by restoring security features.

The next page represents a basic block diagram of an Ethernet connection using Golden Tee LIVE as an Example.

Golden Tee LIVE Ethernet Wiring Diagram



All Ethernet cables to a GT LIVE game are connected at the Nighthawk Chassis. Remove the cabinet back door to access the Nighthawk Chassis located at the bottom of the cabinet. For all Ethernet related questions, please call Incredible Technologies Technical Support at (800) 262-0323 x155.