



Product Brief

MCCI® Point-to-Point LAN PC Drivers

3G Network Connectivity

As cellular networks get faster and more robust, they are becoming a more viable and widely used medium for giving mobile handset modem users connectivity to the Internet, e-mail, and other laptop and PC services.

In 2007, the mobile handset modem market grew over 300% from the previous year due to the combination of increased coverage of 3G cellular networks and lower connectivity costs.

Unfortunately, cellular modem limitations still exist and most users can expect to be interrupted by connection drops, which force them to go through the trouble of manually re-establishing their connection.

These limitations have forced cellular network operators to begin to tell handset makers to design an Ethernet-style interface into their products. Customers demand more reliable connectivity options.

This leaves the handset vendor with two options: take the expensive route of redesigning the handset hardware and risk missing time to market or try to find a reliable and transferable off-the-shelf software driver to satisfy this requirement.

MCCI's PPP LAN driver allows handset vendors to supply their customers with a high quality solution to this dilemma without being forced to take their handset designs back to the drawing board.

The MCCI PPP LAN driver acts as the interface between the Internet protocol and the mobile handset dial-up networking modem connection. It was developed to achieve the best of both new and old — it supports connections to fast, contemporary cellular networks and it leverages the existing modem connection, while presenting a familiar user interface to the end user.

MCCI PPP LAN

The benefits of using MCCI PPP LAN driver software are many:

- The cellular network connection shows up in the Network Adapters section in Windows Device Manager.
 - ▶ This gives PC users an interface they recognize.
- The connection is "Always On."
 - ▶ If the connection is dropped or lost, the MCCI PPP LAN driver automatically attempts to re-establish the connection.
 - ▶ The MCCI PPP LAN driver automatically configures and dials once the mobile handset is connected, providing a much better user experience.
- The MCCI PPP LAN driver provides the ability to independently set the TCP window size, reducing performance issues.
 - ▶ The default setting is 60KB — much too large for slow connections. Use PPP LAN to change the setting and avoid bottlenecks at the modem.
- MCCI PPP LAN technology applies directly to mobile handset vendors' legacy platforms.
 - ▶ No need for firmware upgrades.
- Known issues found with Windows TAPI and dial-up networking on various Windows operating systems are eliminated.
 - ▶ For example, without PPP LAN, if a dial-up networking session is active while the user is entering or resuming from a suspend, the modem comes back but the TAPI line device is missing.

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MCCI
PPP LAN
Connections
are
Always On

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The MCCI Advantage

The PPP LAN driver once again proves MCCI's commitment to total systems management by providing handset vendors with an optimal solution to the requirement being handed down by cellular network operators. We provide end users with the transparent solution they want. We provide developers with resolution to several known Microsoft Windows issues. Handsets that use PPP LAN automatically stay connected so users can confidently perform normal tasks.

PPP LAN Diagram

