



Cellular Wireless replacement for Circuit Switched Data

- **Replacement for Circuit Switched Data**
- **Reliable Fax and Dial Modem over Cellular Wireless IP**
- **Transparent operation with PSTN**
- **Fax and Voice for Emergency Vehicles**
- **Real-Time modem Communications**
- **Easy plug and play In-stall**

For many years the only dependable method connecting legacy modems and facsimile machines over Cellular Wireless has been provided by Circuit Switched Data services. These services are now discontinued and many installed devices that rely on legacy modem signals are not able to connect over new IP based M2M Cellular Wireless data connections.

The Solution from NSGDatacom is a reliable and cost effective replacement for the Circuit Switch Data service which allows modems and fax machines to connect over 3G and 4G M2M data networks. The connection is real-time, not store and forward like other systems.

Typical applications include facsimile for emergency vehicles, meter reading, Air Traffic Control systems, alarms, Point of Sale and many more.

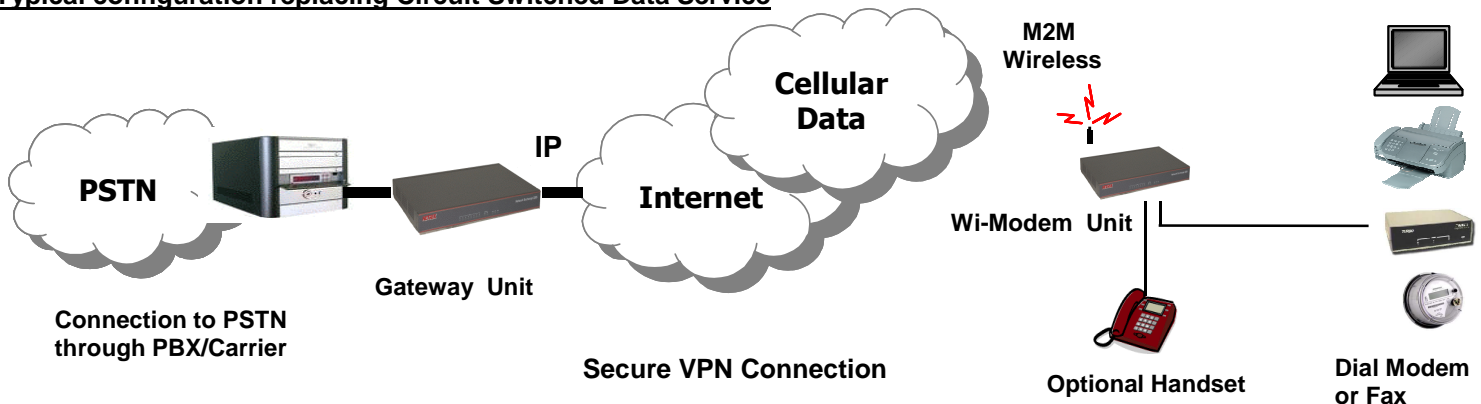
The NSGDatacom **Wi-Modem** wireless unit connects modems, facsimile machines and optionally standard PSTN handsets to the cellular Wireless M2M data network.

At the other end of the link, a gateway unit from NSGDatacom provides connection between the wireless devices and the PSTN. For transparent operation with existing systems, the gateway allows both outgoing and Direct Inward Dial (DID) connections from the PSTN directly through a Carrier or through any PBX or Key System.

Customers with multiple connections at a single site can operate these over a single M2M data account.

Wi-Modem units are remotely manageable and may be pre-configured at the factory to be plug and play on site.

Typical configuration replacing Circuit Switched Data Service



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Wi-Modem

Product Features

Physical Interfaces

- **Analog:**
 - One or two analog Telephone Interfaces on RJ11 (Optional 2nd port).
 - Fixed two-wire FXS Loop start
 - Signaling types include Wink start, delay start, immediate start, hoot-and-holler and phone
 - Dialing can be either DTMF or pulse
- **LAN Connectivity:**
 - Optional 10/100 Base-T Ethernet Interface on RJ45
 - Internal USB interface
- **Serial Interface:**
 - Internal V.24/RS-232 physical level
 - Optional external DB9 connector
 - Supports Asynchronous data from 1200bps to 115.2Kbps.
 - Synchronous serial data to 256Kbps optional

Connectivity

- **Data Modem Ports**
 - FXS
 - Echo Cancellation
 - Silence Suppression
 - Modem Relay
 - V.22bis, V.32bis, V.42
 - V.27ter, V.29
 - Group III fax
 - DTMF or Pulse (10 or 20 pps)
 - TIP/RING Reversal
- **IP**
 - TCP, UDP/RTP Data Transport
 - RTP Packet Optimization
 - IP Static Routing
 - Dial-Up and DLCI IP configuration
 - DHCP Client
 - Telnet (Client or Server)
 - RIP configuration
 - TCP Port configuration
 - TCP Broadcast
- **Data**
 - RS232 (V.24) Asynchronous Data
 - Triple X PAD Port Configuration
 - Local Console Port can be used as the Trunk (Async PPP) or as a local Data Port

- **Wireless**
 - Integrated Wireless modem supports GM or CDMA Wire Cellular data networks
- **Voice**
 - Optional Voice Port with voice compression (VoIP)

Management

- NMS Manageable via SNMP
- Configuration, Monitoring and troubleshooting over public or private IP networks
- Menu Driven Console Interface
- Remote or Local Access
- Compatible with NSG Network Management System

System Features

- Central time keeping system
- Closed User Groups
- Date, Time processing
- Alarms
- Password Security for MMI
- User Friendly Man/Machine interface

Reporting Features

- Alarm Reports
- CDR call logging

Modem Settings

- Answer Wait Time 1-30 sec in 1 sec increments
- Modem Relay
- V.22bis, V.32bis, V.42
- V.27ter, V.29
- Group III fax
- DTMF or Pulse (10 or 20 pps)

Security

- IP Authentication
- Call setup authentication
- Unit Authentication
- MMI User Passwords
- Optional Encryption

Administrative Options

- DTR/DCD Handshake
- Network User ID (NUI)
- Logon with NUI Required
- TCP Configuration

Networking

- Fully Compatible with the Netrix Exchange line of Products for Point to Point and Mesh Network Configurations.
- Can also provide Gateway functions between Private, PTSN and SIP Networks

Operation

- IP Wireless
- Cellular Data (Supports multiple hops)
- IP Satellite
- Terrestrial IP
- Private or Public Networks

Electrical Specifications

- **Power:**
 - External Power Block 5V DC, 10 Watt max, Medically Approved PSU.
 - Input 100/250 VAC @ 50/60 Hz
- **Connectors:**
 - DC Power
 - RJ11 Analog Voice/Fax/Modem ports
 - Optional DB-9 male RS232 Data port
 - 10Base-T Ethernet port
- **Data Rates:**
 - Asynchronous: 50 bps to 38.4 Kbps
 - Async PPP: 1200 bps to 115.2 Kbps

Physical

- **Size:**
 - Desktop: 1.25" H x 5.5" W x 3.75" D
- **Environment:**
 - Operating Temperature: 0° to 40° C (32° to 104° F)
 - Storage Temperature: -20° to 70° C (-4° to 158° F)
 - Humidity: 95% non-condensing



3G Wi-Modem unit shown 4G available.