Overview
The Microhard IPn3Gb Cellular Modem is a high-speed interface optimized for use on 3G/HSPA+ infrastructure where coverage is available. The modem is accessed through the Internet using TCP/IP communications protocol using a Dynamic or Static IP address. The IPn3Gb offers two-way data exchange with a base station PC via the HSPA and Quad Band GSM networks, using 3G and/or EDGE or GPRS technology. The IPn3Gb modem is for use on the Bell, Telus, Rogers networks.

Benefits and Features
- Fast, secure industrial strength wireless solution
- Powerful, robust wireless communication of serial, USB, and Ethernet data
- Wide operating temperature (-40°C to +85°C)
- Flexible power saving modes
- SMS and email data usage alerts

Technical Description
The Microhard IPn3Gb Cellular Modem is a rugged, intelligent wireless data platform designed to enable real-time, two-way communication with remote assets. The modem has its own embedded TCP server, which enables transmission of serial data from non-IP devices. The use of a firewall helps secure communications.

The IPn3Gb is a lower power industrial modem that carries many networking, security, management and data features.
Specifications

Technology

3G/HSPA+

Band

Six Band for UMTS/HSPA FDD Bands:
2100/1900/1700/900/850/800 MHz
Quad Band GSM: 1900/1800/900/850 MHz

Throughput

UMTS/HSPA: 5.76 Mbps uplink, 21.1 Mbps downlink
Ethernet: 10/100 BaseT, Auto-MDI/X, IEEE802.3, RJ-45
RS-232 Data Rates: 300 bps to 921 kbps

General

Input Voltage: 7 to 30 Vdc
Current Drain at 12 Vdc:
  • Idle - 70 mA, 85 mA (with Ethernet device)
  • Average Active - 75 mA (serial data), 94 mA (Ethernet)
  • Peak Transmit - 275 mA

Operating Temperature: -40°C to +85°C
Operating Humidity: 5% to 95% non-condensing
Network Protocols: TCP/IP, UDP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP
Serial Interface: RS-232, DB9-F
RS232/422/485 (2/4 wire)
Ethernet Interface: 10/100 Mbps RJ-45
mini-USB 2.0
RF Antenna Connectors: SMA female
Status LED's: Network, RSSI, RF, Signal, Status
Dimensions: 57 mm x 98 mm x 38 mm
Weight: 235 grams