3G Serial Modem

The industrial-grade 3G Serial Modem (NTC-3000) supports serial data communications across a diverse range of machines and is ideal for SCADA use. It offers reliable performance, universal installation and remote control in any data telemetry environment.

NTC-3000
Specification Sheet

3G Serial Modem
Overview

The NetComm Wireless 3G Serial Modem (NTC-3000) enables the remote monitoring, analysis and management of industrial and commercial machine data. Offering RS-232 serial data connectivity, it gathers and transfers machine data to a central site over 3G for the real-time management of traffic infrastructure, water and waste control systems, vending machines, farming equipment and other machines in remote locations.

QUICK FACTS

- A compact heavy-duty 3G modem that provides reliable RS-232 serial data connectivity to enable diverse Machine-to-Machine (M2M) applications;

- Connect to various 2G and 3G networks worldwide;

- Includes a USB 2.0 port and a SIM card reader with lockable tray;

- Can be deployed in diverse environments, offering a wide input voltage (5-36V DC), a wide operating temperature range (-40 to 85°C) and flexible mounting options; and

- Supports the Open AT command set and AirVantage and allows remote diagnostics and control via SMS

The 3G Serial Modem (NTC-3000) is a rugged 3G modem that enables wireless data communication and supports SCADA (Supervisory Control and Data Acquisition) systems. It comes equipped with RS-232 serial data connectivity and a USB 2.0 port for the real-time monitoring and control of machines in remote locations.

CONNECT LEGACY EQUIPMENT
Avoid the cost of replacing or upgrading existing assets that run critical processes. The cost-effective 3G Serial Modem sends data to any IP enabled device using RS-232 serial data. Ideal for SCADA use in areas such as manufacturing, utilities, construction and agriculture, the NTC-3000 enables the remote collection, monitoring and control across a wide range of M2M applications.

NETWORK AND SERVICE FLEXIBILITY
Featuring a multi-mode data module, the NTC-3000 supports remote deployments and allows you to choose between a variety of 2G and 3G networks.

UNIVERSAL INSTALLATION
Deploy M2M applications in any environment with access to a wide input voltage range, extreme temperature tolerance (-40°C to 85°C) and a lockable SIM tray. For easy installation, the compact NTC-3000 also includes a DIN rail and flexible wall mount options including a removable mounting bracket.

OPEN AT
Take advantage of the custom NetComm Wireless Open AT application with the capacity to: transparently transfer serial port traffic over the Internet via TCP or UDP using the built-in Packet Assembler and Disassembler (PAD) functionality; configure a periodic reboot to ensure the modem is always accessible and connect to a DynDNS account to update the NTC-3000's IP address when not using a static IP address.
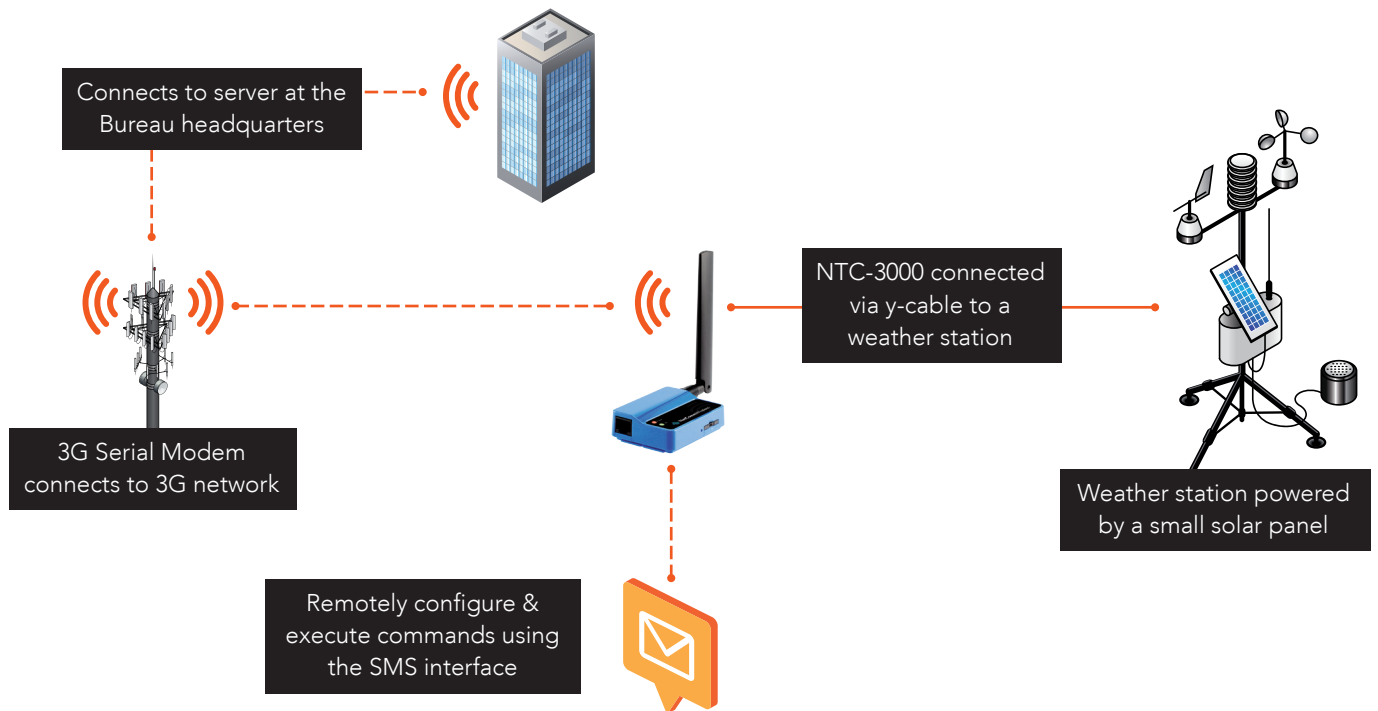
SMS CONTROL
Reduce onsite visits and save costs using advanced diagnostics and control via SMS to query status information and settings, execute commands and configure settings.

Application Example
Connecting remote weather stations

Connects to server at the Bureau headquarters

NTC-3000 connected via y-cable to a weather station

3G Serial Modem connects to 3G network

Weather station powered by a small solar panel

Remotely configure & execute commands using the SMS interface

Device Features
At a glance

1. Cellular antenna connector
2. Serial RS-232 port via Y-cable
3. Power input via Y-cable
4. SIM card slot (for USIM/SIM 2FF format)
5. SIM tray eject button
6. Mini USB 2.0 port (host or device mode)
7. Reset button

Package Contents
What's in the box?

1 x NetComm Wireless NTC-3000 3G Serial Modem

1 x Quick start guide

1 x Penta band 1dBi antenna with SMA connection

1 x Y-cable (8P8C to DE-9 and DC power input)

1 x DIN rail mounting bracket

Technical Specifications

CONNECTIVITY
- 1 x 8P8C connector for serial RS-232 data connections and DC power input (Y-cable with DE-9 connector included for easy installation)
- 1 x Mini USB 2.0 port for serial connections (Windows driver available)

SIM CARD READER
- Locking Tray, supports standard USIM

ANTENNA CONNECTOR
- 1 x SMA connector for Cellular antenna

LED INDICATORS
- Power | 3G Status

OPERATING TEMPERATURE
- -40°C to 85°C

POWER INPUT
- 5 - 36 VDC, via 8P8C connector (using supplied Y-cable) or via USB port

DIMENSION / WEIGHT
- 74 x 57 x 24 mm / 84g (w/o mounting bracket)

OPTIONAL ACCESSORIES
- PSU-0004 AC/DC Power Adapter, 2.1mm center positive jack, 100 – 240 VAC: 12VDC/1.5A with interchangeable EU, US, AU & UK heads

MODEL	NTC-3000-01	NTC-3000-02	NTC-3000-03	NTC-3000-04
Frequency Bands	**UMTS:** • Band 2 (1900 MHz) • Band 5 (850 MHz) **GSM/GPRS/EDGE:** • GSM 850 (850 MHz) • EGSM 900 (900 MHz) • DCS 1800 (1800 MHz) • PCS 1900 (1900 MHz)	**UMTS:** • Band 1 (2100 MHz) • Band 8 (900 MHz) **GSM/GPRS/EDGE:** • GSM 850 (850 MHz) • EGSM 900 (900 MHz) • DCS 1800 (1800 MHz) • PCS 1900 (1900 MHz)	**UMTS:** • Band 1 (2100 MHz) • Band 5 (850 MHz) **GSM/GPRS/EDGE:** • GSM 850 (850 MHz) • EGSM 900 (900 MHz) • DCS 1800 (1800 MHz) • PCS 1900 (1900 MHz)	**CDMA:** • 800 MHz • 1900 MHz
Regulatory Certifications	• IC (Canada) • FCC (USA) • PTCRB (USA) • RoHS (Europe)	• CE (Europe) • RCM (Australia) • RoHS (Europe) • TRA (UAE) • iDA (Singapore)	• CE (Europe) • RCM (Australia) • RoHS (Europe)	• FCC (USA)
Network Approvals	• AT&T		• Telstra	• Verizon

Optional Accessories

PSU-004