

**NTC-3000-02**  
**NTC-3000-03**



## 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.

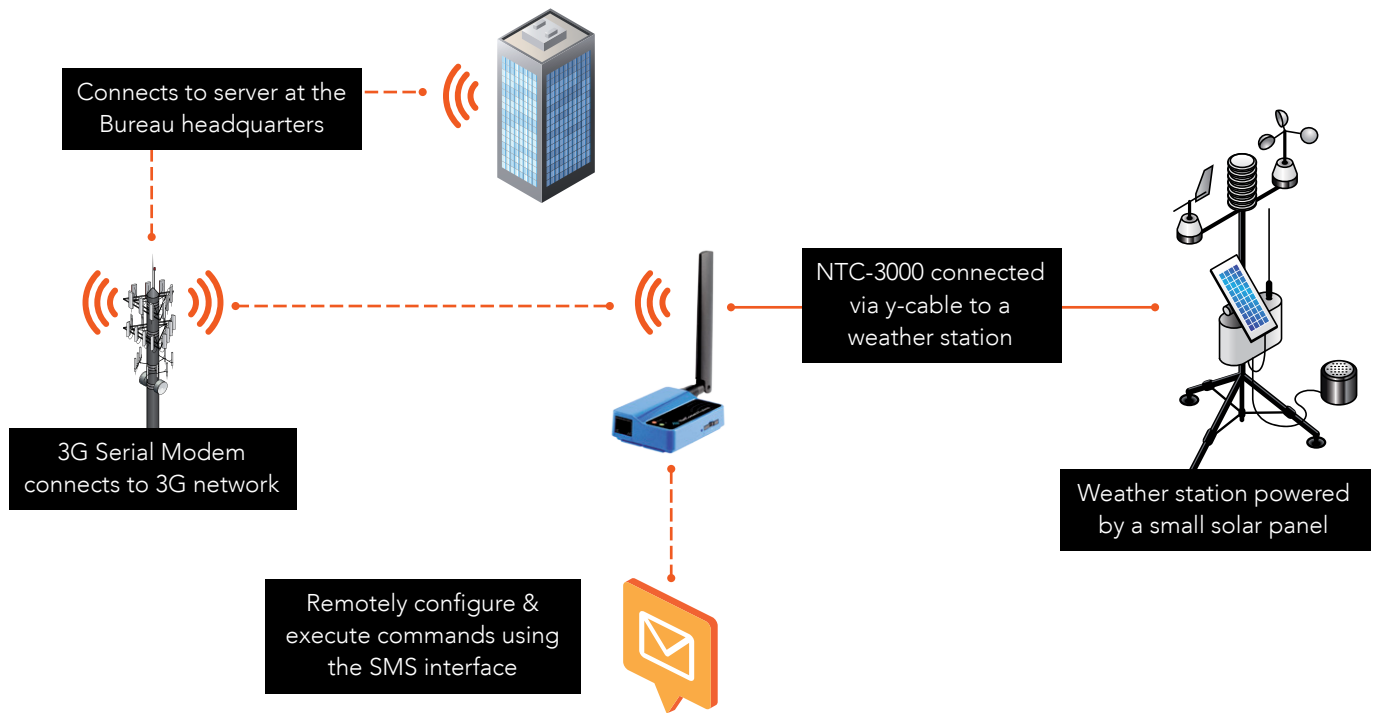


#### SMS CONTROL

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



## Device Features

### At a glance



- |                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| 1 Cellular antenna connector              | 5 SIM tray eject button                   |
| 2 Serial RS-232/422/485 port via Y-cable  | 6 Mini USB 2.0 port (host or device mode) |
| 3 Power input via Y-cable                 | 7 Reset button                            |
| 4 SIM card slot (for USIM/SIM 2FF format) |                                           |

## Package Contents

### What's in the box?



# 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
<b>Frequency Bands</b>	<b>UMTS:</b> <ul style="list-style-type: none"> <li>• Band 2 (1900 MHz)</li> <li>• Band 5 (850 MHz)</li> </ul> <b>GSM/GPRS/EDGE:</b> <ul style="list-style-type: none"> <li>• GSM 850 (850 MHz)</li> <li>• EGSM 900 (900 MHz)</li> <li>• DCS 1800 (1800 MHz)</li> <li>• PCS 1900 (1900 MHz)</li> </ul>	<b>UMTS:</b> <ul style="list-style-type: none"> <li>• Band 1 (2100 MHz)</li> <li>• Band 8 (900 MHz)</li> </ul> <b>GSM/GPRS/EDGE:</b> <ul style="list-style-type: none"> <li>• GSM 850 (850 MHz)</li> <li>• EGSM 900 (900 MHz)</li> <li>• DCS 1800 (1800 MHz)</li> <li>• PCS 1900 (1900 MHz)</li> </ul>	<b>UMTS:</b> <ul style="list-style-type: none"> <li>• Band 1 (2100 MHz)</li> <li>• Band 5 (850 MHz)</li> </ul> <b>GSM/GPRS/EDGE:</b> <ul style="list-style-type: none"> <li>• GSM 850 (850 MHz)</li> <li>• EGSM 900 (900 MHz)</li> <li>• DCS 1800 (1800 MHz)</li> <li>• PCS 1900 (1900 MHz)</li> </ul>	<b>CDMA:</b> <ul style="list-style-type: none"> <li>• 800 MHz</li> <li>• 1900 MHz</li> </ul>
<b>Regulatory Certifications</b>	<ul style="list-style-type: none"> <li>• IC (Canada)</li> <li>• FCC (USA)</li> <li>• PTCRB (USA)</li> </ul>	<ul style="list-style-type: none"> <li>• CE (Europe)</li> <li>• RCM (Australia)</li> </ul>	<ul style="list-style-type: none"> <li>• CE (Europe)</li> <li>• RCM (Australia)</li> </ul>	<ul style="list-style-type: none"> <li>• FCC (USA)</li> </ul>

## Optional Accessories



PSU-004



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