




# NetCommWireless NTC-3000 NetComm Wireless Modem Owner's Manual

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Modem Owner's Manual**

## 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



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## 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.

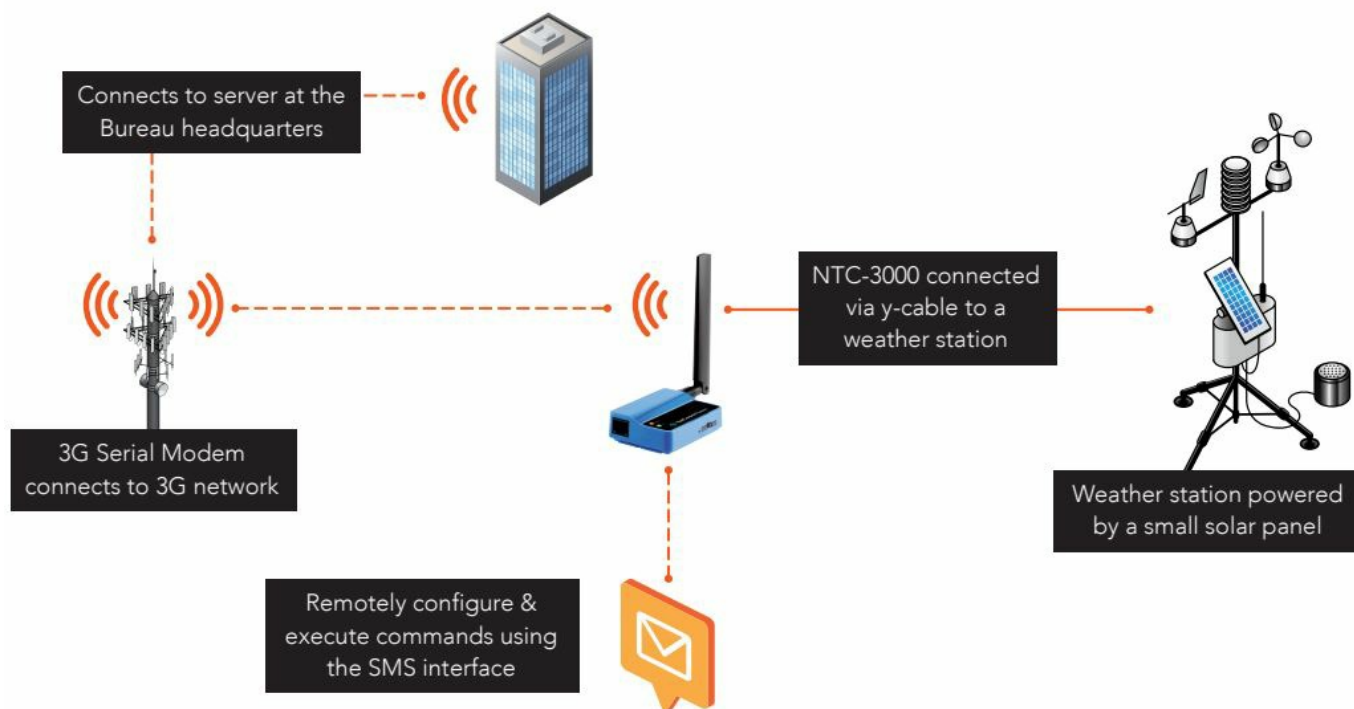


### **SMS CONTROL**

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
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   | SIM CARD READER   | OPERATING TEMPERATURE  | OPTIONAL ACCESSORIES   |
|--|---|--|--|
| <ul style="list-style-type: none"> <li>1 x 8P8C connector for serial RS-232 data connections and DC power input (Y-cable with DE-9 connector included for easy installation)</li> <li>1 x Mini USB 2.0 port for serial connections (Windows driver available)</li> </ul> | <ul style="list-style-type: none"> <li>Locking Tray, supports standard USIM</li> </ul>                                    | <ul style="list-style-type: none"> <li>-40°C to 85°C</li> </ul>                                | <ul style="list-style-type: none"> <li>PSU-0004 AC/DC Power Adapter, 2.1mm center positive jack, 100 – 240 VAC: 12VDC/1.5A with interchangeable EU, US, AU &amp; UK heads</li> </ul> |
| ANTENNA CONNECTOR  | POWER INPUT   | DIMENSION / WEIGHT   |  |
| <ul style="list-style-type: none"> <li>1 x SMA connector for Cellular antenna</li> </ul>   | <ul style="list-style-type: none"> <li>5 - 36 VDC, via 8P8C connector (using supplied Y-cable) or via USB port</li> </ul> | <ul style="list-style-type: none"> <li>74 x 57 x 24 mm / 84g (w/o mounting bracket)</li> </ul> |  |
| LED INDICATORS   |   |  |  |
| <ul style="list-style-type: none"> <li>Power   3G Status</li> </ul>  |   |  |  |

| MODEL                     | NTC-3000-01  | NTC-3000-02  | NTC-3000-03  | NTC-3000-04  |
|---------------------------|--|--|--|--|
| Frequency Bands           | <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> |
| Regulatory Certifications | <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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## Documents / Resources



[NetCommWireless NTC-3000 NetComm Wireless Modem](#) [pdf] Owner's Manual  
NTC-3000 NetComm Wireless Modem, NTC-3000, NetComm Wireless Modem, Wireless Mode  
m, Modem

## References

- [User Manual](#)

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