



Next G Data Modem (NG20/40 Series)

- ✓ Never travel to site to collect your data again, save time & money!
- ✓ Immediate access to live weather conditions!
- ✓ Access your weather data from multiple points, anywhere in the world!

Features

- Rugged housing
- Low power operation
- Internal and External models

Applications

- General meteorology
- Irrigation scheduling
- Pollution management

The NG20/40 series modems can be connected to an EasiData Mark4, WeatherMaster 2000 & 1600, and our Logging Rain Gauge & WeatherMate weather stations.

With this modem connected to your weather station within the Next G mobile coverage area, you can collect your weather data from almost anywhere in the world, using a PC with Line Modem (Internet) connection.

Remote downloading makes regular updates of your weather data easy and cost effective, compared with the time and cost of site visits.

This option is also ideal for equipment that might need re-location, or needs remote access on a daily or weekly basis.



WeatherMaster 2000 with NG20 installation

This modem allows automation of downloading using Envirodata's EasiAccess software, or any script based terminal program, to save further time.

Equipment costs are lower than for radio or satellite links, with the same level of convenience.

The NG40 (internal model) is small enough to fit inside our EasiData MK4 housing and only requires the MK4 standard 10 watt panel.

The NG20 (external model) is a complete field-ready package and is for our WeatherMaster, Logging Rain Gauge & WeatherMate weather stations. It includes a separate sealed housing & solar power system.

Both systems are supplied with a protection circuit that protects the modem from low power conditions (brownouts) and also ensures the remaining power is directed to the logger, ensuring data logging is never interrupted.

By default, the access time is typically limited to 12 hours per day (7AM-7PM) to keep power consumption to a minimum. Other access times can also be accommodated.

Envirodata Australia Pty Ltd

P.O. Box 395 WARWICK Queensland 4370 Australia

Phone: (07) 4661 4699

Fax: (07) 4661 2485

Int. Phone: + 61 7 4661 4699

Int. Fax: +61 7 4661 2485

e-mail: sales@envirodata.com.au <http://www.envirodata.com.au>



Specifications

General: Next G HSDPA 3G modem

- Receive Diversity
- RX Equalisation
- Extended AT Command Set
- Requires a SIM card

Frequency Band: 850 / 2100 MHz

Operating mode: 2-way Circuit Switched data

Range (line of sight): Next G Coverage Area
N.B. Range may be extended in fringe areas in some cases by using directional, high gain antennae.

Communications Interface: RS232 serial interface

Housing (for NG20):

High impact PVC sealed IP66 with sealed antenna, power and communications connectors.
Powder coated Aluminium sunshade for mounting.

Operating Conditions:

Operating Temperature: -20 to +50
Ambient Operating Humidity: 95%(at 50°C), relative humidity (non-condensing)
Storage Temperature: -40°C ~ +70°C
Electrostatic Discharge Rating: Power, RS-232 and USB signal lines: +/-15KV

Dimensions:

NG40 Internally housed (Within EasiData Mark4 System)

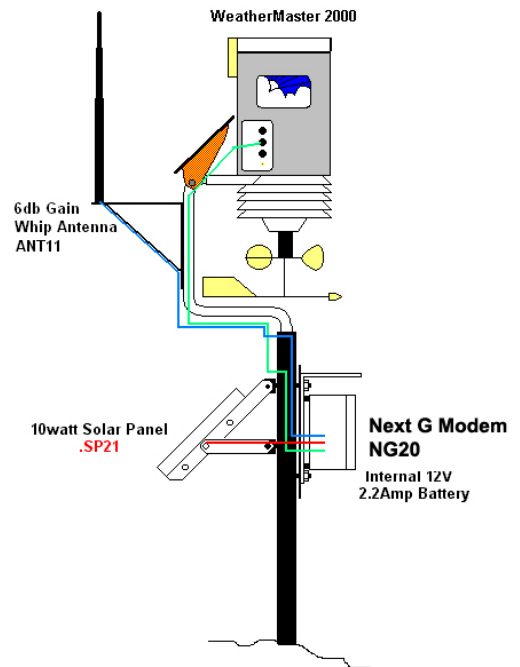
NG20 Sealed housing
230 x 140 x 100mm
Box dimensions only. Does not include sunshade.

Modem Size: 110 x 70 x 21mm
Weight: 130g without antennas

Power Consumption:

Maximum: 650mA @ 9V
Idle: 10mA @ 9V

WeatherMaster & NG20 System Layout



Solar Panel (for NG20):

Peak watts @ 25 °C:	10 watts
Rated Voltage @MPP:	16.8
Rated Current @MPP:	590mA

Configurations:

Model	Suits
NG20	FOR WM series, with separate sealed housing, battery, solar panel and regulator.
NG40	For MK4 series, factory fitted inside the EASIDATA MK4 housing.

Antenna Options:

Suffix D	5 dB omni-directional Dipole
Suffix Y	6 dB 6 element directional Yagi
Cable included:	4 metres - specify for EasiData or WeatherMaster connection

Shipping Weight:

NG20	Add 7 kg (includes Solar Panel)
NG40	Add 3 kg

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