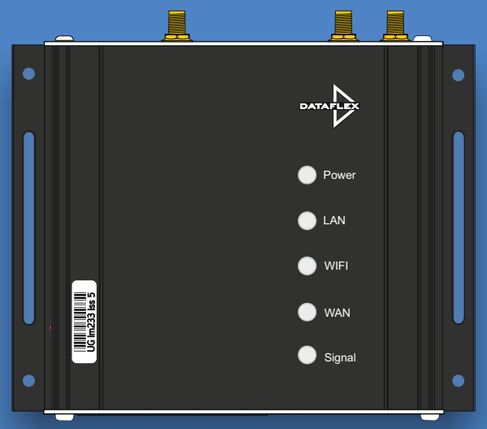
Hera

600 Series M2M Router



Read before powering device

quick start guide

Declaration of Conformity

We: **Dataflex Design Communications Limited**
8 Frederick Sanger Road, Surrey Research Park,
Guildford, Surrey, GU2 7YD, UK

Declare under sole responsibility that the product family **Hera600** to which this declaration relates, is compliant with the essential requirements of:

RoHS Directive 2002/95/EC of 27 January 2003

WEEE Directive 2002/96/EC of 27 January 2003

Energy Using Product Directive 2005/32/EC 6 July 2005

Batteries Directive 91/157/EEC 26 September 2008

R&TTE Directive 1999/5/EC

The Low Voltage Directive 2006/95/EC

The EMC Directive 2004/108/EC

Signed
Name
Position
Place and date of issue
year of affixing CE Mark

Jon Darley
Chief Technical Officer
Leatherhead October 2012
2012

E113664 Electrical Safety

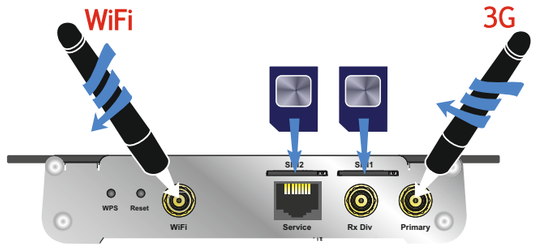
FCC ID: 2AASBH601V2 Contains FCC ID: N7NSL8090
IC: 11329A-H601V2 Contains IC:2417C-SL8090
Model:H601V2

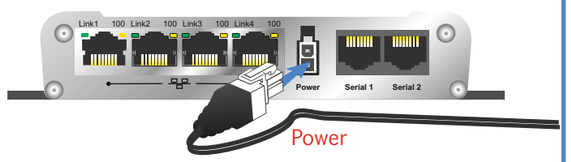
Manufacturered by Dataflex Design Communications Ltd in China

1: Getting started

Never insert or remove SIM cards while the Hera600 is powered

Insert SIM cards & attach antennas or cables for 3G and WiFi where applicable.
Features & appearance may vary to those shown according to model type.





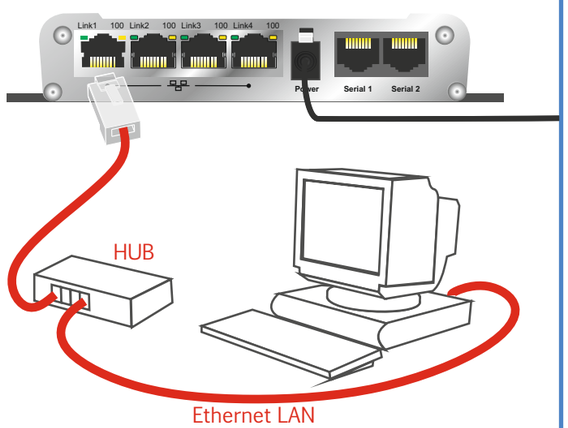
Insert the power connector. Plug the mains adapter into a dedicated socket & switch on

To configure the Hera600, connect to the web interface

Connection to the web interface can be achieved by wired ethernet (LAN) or WiFi

2a: wired connection

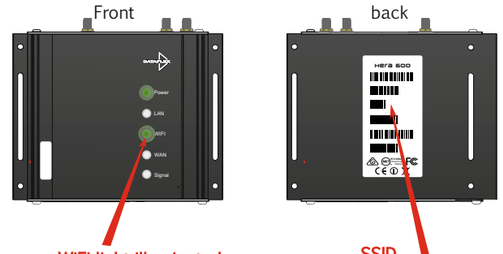
Connect to a PC or laptop by ethernet cable either directly or via an ethernet hub



2b: WiFi connection

using username and password

If there is no SSID information on the Hera600 label, use a wired connection to connect to the Hera600 web interface



Establishing a WiFi Connection

a: Ensure the WiFi light on the Hera600 is illuminated

b: Search wireless networks on your WiFi enabled laptop, PC, tablet or phone. Connect to the network which matches the SSID on the Hera600 label

c: Enter the WiFi username and passphrase exactly as it appears on the label when prompted

2c: WiFi connection

using WPS

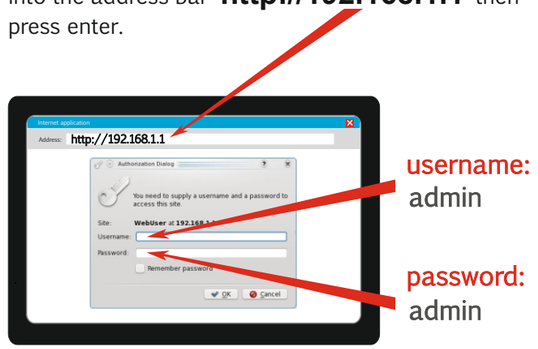
If there is no SSID information on the Hera600 label, use a wired connection to connect to the Hera600 web interface

Configure your computing device to connect to WiFi in WPS mode

The WPS function will automatically set up a secure connection between your router and computer

3: web interface

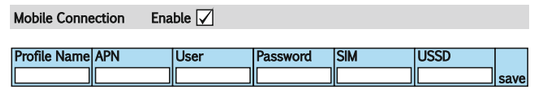
Open a web page on your PC or laptop, and type into the address bar **http://192.168.1.1** then press enter.



Enter the username and password and click OK to log into the Hera web interface

† Note: Appearances may vary according to operating system and web application. Information supplied by your equipment provider overrides any information shown above

4: connecting 3G



Once logged on to the web interface refer to the documentation provided with your SIM.†

Information required for 3G connection:
- APN (Access Point Name)
- Username
- Password

To enable the 3G service:
- Enter a profile name of your choosing
- Enter the SIM information bulleted above
- Tick the “enable" box.
- Click "apply changes" to connect
- Click "save configuration"

This quick start guide provides basic connection information only. For full feature information download the latest comprehensive user guide from:

www.dataflex.com/hera

Front Panel Indicators:

LED	State	Meaning
Power	On	Unit is powered and operating normally
	Flashing in sync with another LED	Error on the port indicated
	Flashing independently after boot up period	Internal error
	Off	No mains power or product failure
LAN	On	LAN connection available
	Flashing (regular pattern) in sync with POWER LED	Error on the LAN port
	Flashing (irregular)	Data transfer
	Off	No LAN connection available
WIFI	On	WiFi connection available
	Flashing (regular pattern) in sync with POWER LED	Error on WiFi port
	Flashing (irregular)	WiFi data transfer
	Off	No WiFi connection available
WAN	On	WAN connection available
	Flashing (regular pattern) in sync with POWER LED	Error on WAN port
	Flashing (irregular)	WAN data transfer
	Off	No WAN connection available
Signal	Red	Cellular signal strength WEAK
	Orange	Cellular signal strength MEDIUM
	Green	Cellular signal strength STRONG
	Off	No cellular service available

LEDs on each Ethernet port indicate connectivity and speed

Installation & Warranty:

- The Hera600 should be located, in an environment between -20 to +55 degrees Celsius, where relative humidity is between 0 - 95% non condensing.
- The device should be stored, transported & installed in a manor that does not allow the product to be subjected to condensed water, precipitation, rain or icing, risks of biological attacks, mould growth, damage by animals, significant vibration, shock or impact.
- Avoid locations exposed to heavy soiling due to exhaust from machinery, liquid or airborne particles from industrial processes or excessive dust.
- Do not enclose the device within an unventilated housing where heat may accumulate.
- The Hera600 is primarily designed to be wall mounted. Ensure all cables and antennas are securely located, screwed or latched as appropriate to avoid intermittent connection problems.
- 3G signal strength, WiFi strength and signal interference from other equipment should be considered in the location of the product, in addition to visibility of the front & bottom panel indicators.
- Use only the mains power adaptor provided. Do not modify in any way. Use of this product with any other mains power adaptor may damage the unit, invalidate its warranty and may invalidate its regulatory approval.
- There are no user-serviceable components inside the Hera600. If a fault develops with the product, please contact your service provider or reseller. The casing is fitted with a tamper indicator and should NOT be opened under any circumstances as it will invalidate the warranty.
- Dataflex are not liable for consequential loss or damage which arises from installations where the instructions & warnings in this quick start guide are not adhered to or reasonable precautions have not been taken.
- **Do not insert or remove a SIM card when the product is powered.** This will cause problems with the functionality of the product. Always power off before inserting or extracting a SIM card.

The Hera600 incorporates a GSM radio module.

When in a hospital or a health care facility, observe the restrictions on the use of mobile phones. Do not install the Hera600 in sensitive areas, such as areas where the use of mobile phones are prohibited. Medical equipment may be sensitive to RF energy.

The operation of cardiac pacemakers, other implanted medical equipment and hearing aids can be affected by interference from cellular terminals. such as the Hera600 when placed close to the device. Testing of the Hera600's affect on implanted equipment should be carried out in advance of any installations where interference is likely to occur.

SOS

The Hera600 operates using radio signals and cellular networks, and cannot be guaranteed to connect in all possible conditions. Therefore, you should never rely solely upon any wireless device for life critical communications.

In accordance with EU directive 2002/96/EC regarding Waste Electrical and Electronic Equipment (WEEE), ensure that at end-of-life you separate this product and its accessories from other waste and scrap and deliver to the WEEE collection system in your country for recycling.

This product contains Lithium coin type batteries. Batteries must only be replaced by manufacturer authorised personnel. This ensures fitting of an approved part and avoids the warranty being made void. Additionally it ensures full compliance with Battery Directive 91/157/EEC & local legislation regarding responsible recycling and disposal is adhered to.

FCC ID: 2AASBH601V2 Contains FCC ID: N7NSL8090
IC: 11329A-H601V2 Contains IC:2417C-SL8090
Model:H601V2

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Dataflex Design Communications Limited declare under our sole responsibility that this device (H601v2) complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Caution: Exposure to Radio Frequency Radiation.
The device shall be used in such a manner that the potential for human contact during normal operation is minimized.
When connecting an external antenna to the device, the antenna shall be placed in such a manner to minimize the potential for human contact during normal operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communications Commission Notice
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a non-residential installation.
This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.
The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product guidelines. Use only WiFi antenna type Cortec AN2400-5505RS-01 or similar type with equal or lesser gain and impedance 50Ω.
If a replacement antenna is required, please contact your supplier
2 .4GHz operation of this product in the USA is firmware-limited to channels 1 through 11.
Maximum antenna gain for cellular use 2.5dBi @ 850MHz and 1900MHz bands, Impedance 50Ω

Modifications
The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Dataflex Design Communications Limited may void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme au(x) standard(s) RSS exempt(s) de licence d'Industrie Canada. Son fonctionnement est sujet aux deux conditions suivantes:
(1) cet appareil ne doit pas occasionner d'interférence et
(2) cet appareil doit supporter toutes les interférences, y compris celles qui pourraient provoquer un mauvais fonctionnement de cet appareil.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter (Hera601v2) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

The maximum antenna gain for cellular use is 2.5dBi @ 850MHz and 1900MHz bands. Impedance 50Ω
Fixed type: 3G-03-25
Lead type: AC-Q1819-24W

The maximum antenna gain for WiFi use is 2dBi @ 2.4GHz. Impedance 50Ω
Fixed type: Cortec AN2400-5505RS-01

Le présent émetteur radio (Hera601v2) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Le gain maximal pour emploi cellulaire est de 2.5dBi @ 850MHz and 1900MHz bands Impédance 50Ω
fixé type: 3G-03-25
Sur fil: AC-Q1819-24W

Le gain maximal de emploi cellulaire est de 2dBi @ 2.4GHz. Impédance 50Ω
Fixé type: Cortec AN2400-5505RS-01

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the antenna and your body.

Cet appareil est conforme aux limitations de la norme IC RSS-102 concernant l'exposition aux radiations dans un environnement non contrôlé. Cet appareil doit être installé et utilisé avec une distance minimale de 20 cm entre l'antenne et le corps de l'utilisateur.