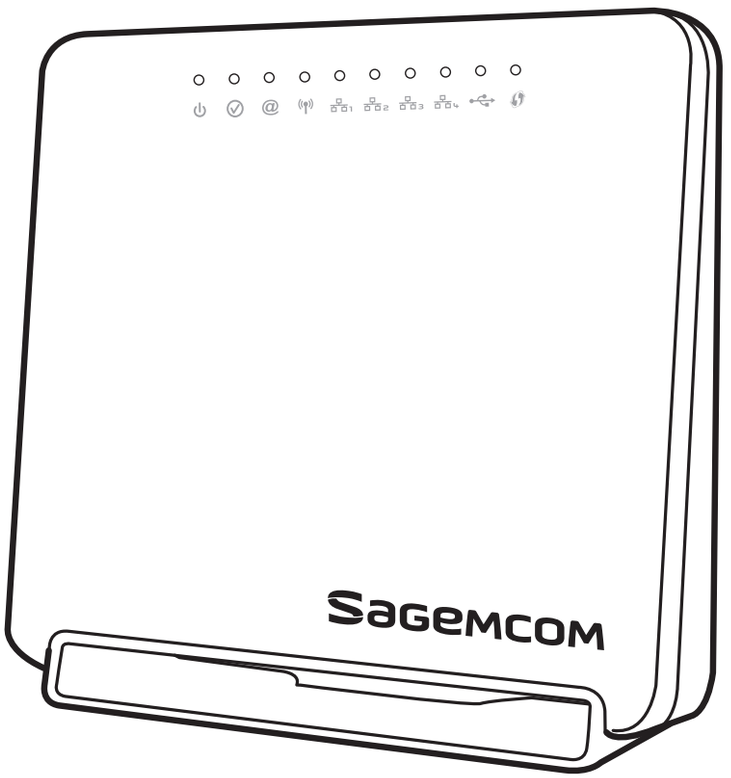
F@ST 1704N

Quick Installation Guide



Sagemcom

Sagemcom thanks you for choosing the range of F@ST 1704N routers while hoping that it will provide you with full satisfaction.

F@ST 1704N products adapt the ADSL function respectively on POTS (ITU G.992.1/3/5 - Appendix A) and on ISDN (ITU G.992.1/3/5 - Appendix B).

F@ST 1704N equipment include four ethernet interfaces (LAN1 to LAN4), one ADSL interface and one USB port (depending model).

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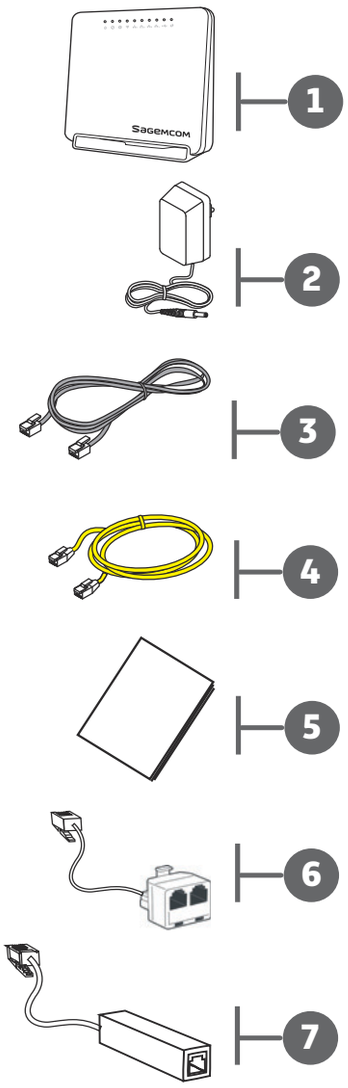
Contents of the pack

Before you carry out the installation, make sure that the pack contains the following elements:



Item	Description
1	F@ST 1704N router
2	Mains adapter
3	ADSL line cable used to connect your router to your telephone line
4	Ethernet cable used to connect your router to the Ethernet port of your computer
5	Quick Installation Guide
6	Filter/Splitter used to connect one phone set and your router to your telephone line*
7	Microfilter used to connect another phone set to your telephone line*
** Option depending on pack content requested*	

Safety instructions

Power supply source

- Do not cover the router's power adapter.
- The router comes with its own power adapter. Do not use another adapter.
- This class II adapter does not need to be grounded (earthed). The connection to the electrical network should comply with the indications given on the label.
- Use a readily accessible AC power outlet located near the router. The power supply cord is 1.5 m long.
- Care should be taken to ensure that the power cord is routed, so it is not likely to be walked on or pinched by items placed upon or next to it.
- The router is designed to be connected to a GG- (ground-to-ground) or GN- (ground-to-neutral) type power supply network.
- The router is not designed to be connected to an electrical installation with IT type diagram (neutral connected to earth through an impedance).
- Protection against short-circuits and leaks between the phase, neutral and earth should be provided by the building's electrical installation. The power supply circuit for this equipment should be fitted with 16 A overcurrent protection and differential protection.
- Connect the router to the AC power via a readily accessible wall socket providing the electric protection.

Location conditions

By choosing an appropriate location, you will preserve the longevity of the device. Ensure that the selected location has the following characteristics:

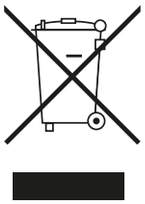
- Install and use the router inside a building.
- The room temperature must not exceed 40 °C.
- Solar radiation: 700 w/m².
- Relative humidity: 5 to 85 % without condensation.
- The router can be placed on a desktop or fixed vertically in its wall mounting.
- Do not expose the router to strong sunlight or place it near a substantial source of heat.
- Do not place the router in an environment where it could be subjected to considerable steam condensation.

- Do not expose the router to splashes of water.
- Avoid blocking any vent openings or exhaust exits on this equipment. Do not place equipment in a built-in installation such as a cabinet that may impede the flow of air through the ventilation openings.
- Do not use the router or its peripherals for outdoor transmissions.

Maintenance

- This equipment is not user serviceable and is to be serviced by qualified personnel only.
- Do not disassemble this equipment. If service is required, disconnect all power and phones lines from the equipment and consult qualified service personnel.
- Do not use liquid or aerosol cleaning agents.

Environment



Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

For North America

IMPORTANT SAFETY INSTRUCTIONS

When using this equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- The equipment is for indoor use in dry locations.
- Operate the equipment on maximum ambient temperature 40 °C, without any cover.
- Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.".

WARNING

To prevent fire or shock hazard. do not expose this appliance to rain or moisture.

This lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product’s enclosure that may be of sufficient magnitude.

The exclamation point within an equilateral is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the informations accompanying the appliance.

CAUTION - RISK OF ELECTRIC SHOCK - DO NOT OPEN

Warning: To reduce the risk of electric shock, do not remove cover (or back) no user serviceable parts inside. refer servicing to qualified service personnel.

USA

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device 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.

IMPORTANT NOTE:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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 Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

This device produces radio frequency energy in the 2.4 GHz spectrum. The antenna must be positioned to keep a minimum distance of 20 cm (0.65 ft) from the radiating element to any nearby person.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

FCC Terminal Equipment Statements

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

This equipment has a Universal Service Order Code (USOC) of RJ11C, a Facility Interface Code (FIC) of METALLIC. The Telephone Company may request this information when ordering service for this equipment.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the Telephone Company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The Telephone Company may make changes to its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the Telephone Company will provide advance notice so you can make the necessary modifications to maintain uninterrupted service.

This equipment is not user serviceable. If trouble is experienced with this equipment, for repair or warranty information, please contact your Service Provider, or Sagemcom at:

+1 (972) 674-4100, or Sagemcom USA, 14651 N. Dallas Parkway, Suite 900, Dallas, TX 75254. If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.
If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

This equipment connects to the telephone network that can be vulnerable to electrical surges as a result of lightning strikes and other events. Such events can be very destructive to equipment connected to both the telephone network and to AC power sources. It is strongly recommended that a surge arrestor be used to connect this equipment to AC power in order to reduce the possibility of damage resulting from such events.

Canada

IC Warning

CS03:

This product meets the applicable Industry Canada technical specifications.
Le présent matériel est conforme aux spécifications techniques applicables dans l'Industrie au Canada.

The Ringer Equivalence Number is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

RSS(Category I Equipment):

This device complies with Industry Canada license-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.

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.

Radio apparatus containing digital circuitry which can function separately from the operation of a transmitter or an associated transmitter, shall comply with ICES-003.

In such cases, the labeling requirements of the applicable RSS apply, rather than the labeling requirements in ICES-003.

This Class B digital apparatus complies with Canadian ICES-003.
The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Cet appareil est conforme aux normes d'exemption de licence RSS d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes :

1. cet appareil ne doit pas causer d'interférence et
2. cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

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.

Les appareils radio contenant des circuits numériques qui peuvent fonctionner indépendamment d'un émetteur ou d'un émetteur connexe doivent être conformes aux exigences de la NMB-003. Ce sont alors les exigences d'étiquetage du CNR pertinent, plutôt que les exigences d'étiquetage de la NMB-003, qui s'appliquent à ces appareils.

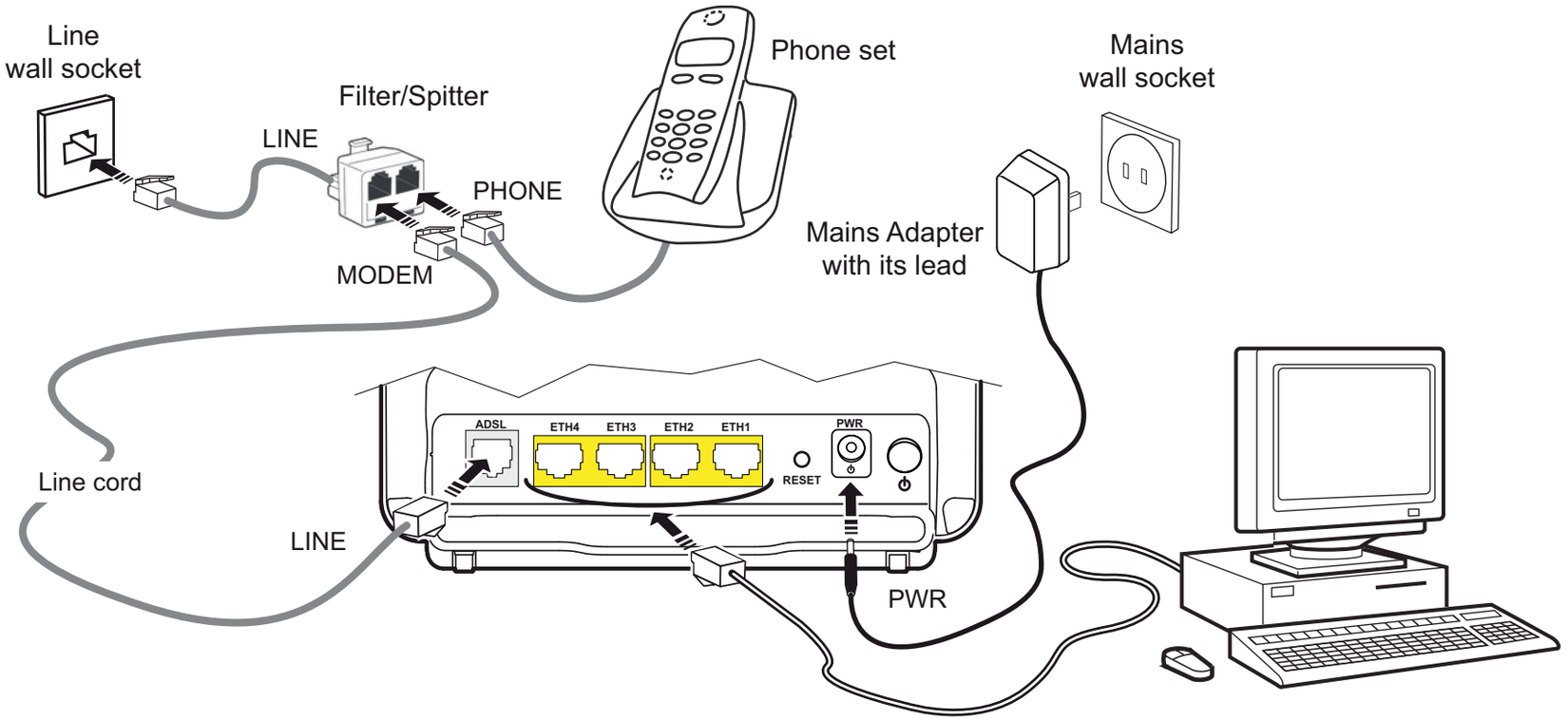
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

- Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 RF, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de RF.

Connection

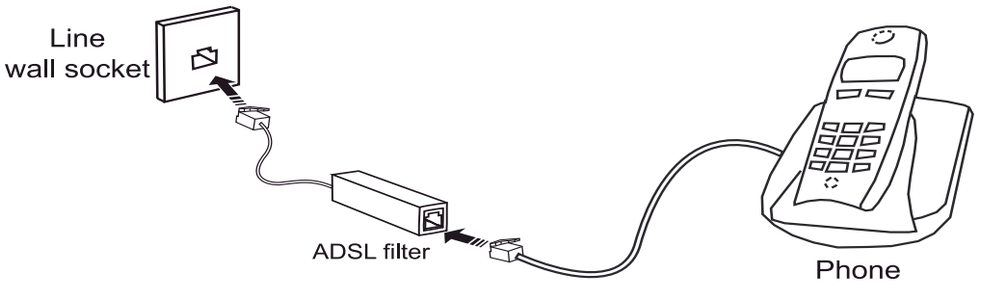
Connecting your router

Make the connections as shown in the diagram below.



Connecting additional telephones

Make the connections as shown in this diagram.



Router supervision

You can monitor the router's activity and status using the following sources:

- status of the LEDs on the front and left panels of the router,
- using the router's built-in "DSL Router" HTTP controller, available in the HTTP configuration tool, accessible at http://myrouter or http://192.168.1.1.

Status of the LEDs on the front panel

LED	Status	Meaning
Power	**Off**	Power Off
	Green	Power On
	Red	Router in rescue mode
ADSL	**Green steady**	ADSL Up
	Green blinking	• ADSL Synchronisation in progress or • down
@ Internet	**Off**	• Power Off or • The Internet account must be configured or • Bridge mode
	Green steady	The Internet account is configured
	Green blinking	Tx/Rx traffic
	Red	Invalid or unauthorised Internet account
WLAN	**Off**	Wi-Fi deactivated
	Green steady	Wi-Fi activated
	Green blinking	Wi-Fi Tx/Rx traffic

LED	Status	Meaning
LAN x (1 to 4)	**Off**	No link detected on the Ethernet port
	Green steady	Ethernet port has detected a link with 100 Mbps device
	Green blinking	Tx/Rx traffic at 100 Mbps
USB	**Off**	No USB connection
	Green steady	USB connection available
	Green blinking	USB connection reading in progress
WPS	**Off**	WPS deactivated
	Green steady	WPS activated
	Green blinking	WPS Tx/Rx traffic

Button on the left panel

Button	Meaning
WPS	Active the WPS mode
WLAN	Active the Wi-Fi mode

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