



F3433 WCDMA/HSDPA/HSUPA ROUTER is a kind of cellular terminal device that provides data transfer function by public WCDMA/HSDPA/HSUPA network.

It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485/RS422), Ethernet and WiFi port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial, Ethernet and WiFi devices with only basic configuration.

It has been widely used on M2M fields, such as intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.

Cellular Specification

Cellular Module Industrial cellular module

Standard and Band UMTS/WCDMA/HSDPA/HSUPA 850/1900/2100MHz,  
850/900/1900/2100MHz(optional)

GSM850/900/1800/1900MHz

GPRS/EDGE CLASS 12

Bandwidth HSUPA: 5.76Mbps(Upload speed)/ HSDPA: 7.2Mbps(Download speed)/UMTS: 384Kbps (DL/UL)

TX power < 24dBm

RX sensitivity < -109dBm

P O Box 2746  
HALFWAY HOUSE  
1685

TEL: 086 1101 404 / FAX: 086 1101 405  
[www.electrilabs.co.za](http://www.electrilabs.co.za) / [info@electrilabs.co.za](mailto:info@electrilabs.co.za)

**ELECTRILABS**  
 (Pty) Ltd

Reg No: 1999/020951/07

#### WiFi Specification

##### Item Content

Standard IEEE802.11b/g  
IEEE802.11n (optional)  
Bandwidth IEEE802.11b/g: 54Mbps (max)  
IEEE802.11n: 300Mbps (max)  
Security WEP, WPA, WPA2, etc.  
WPS (optional)  
TX power 16-17dBm(11g), 18-20dBm(11b)  
RX sensitivity < -72dBm@54Mbps

#### Hardware System

##### Item Content

CPU Industrial 32bits CPU  
FLASH 4MB(Extendable to 16MB)  
SDRAM 32MB(Extendable to 64MB)

#### Interface type

##### Item Content

WAN 1 10/100 Mbps WAN port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection  
LAN 4 10/100 Mbps Ethernet ports(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection  
Serial 1 RS232(or RS485/RS422) port, 15KV ESD protection  
Data bits: 5, 6, 7, 8  
Stop bits: 1, 1.5, 2  
Parity: None, even, odd, space, mark  
Baud rate: 110~230400 BPS  
Indicator "Power", "System", "Online", "Alarm", " Local Network ", "WAN", "WLAN"  
Antenna Cellular: Standard SMA female interface, 50 ohm, lightning protection(optional)  
WiFi: Standard SMA male interface, 50 ohm, lightning protection(optional)  
SIM/UIM Standard 3V/1.8V user card interface, 15KV ESD protection  
Power Standard 3-PIN power jack, reverse-voltage and overvoltage protection  
Reset Restore the router to its original factory default settings  
USB Standard A type USB host interface (reserved)

#### Power supply

##### Item Content

Standard Power DC 12V/1.5A  
Power range DC 5~35V  
Consumption < 450mA (12V)

#### Physical Characteristics

##### Item Content

Housing Iron, providing IP30 protection  
Dimensions 206x135x28 mm  
Weight 790g

#### Environmental Limits

##### Item Content

Operating Temperature -25~+65C (-13~+149F)  
Extended Operating Temperature -30~+75C (-22~+167F)  
Storage Temperature -40~+85C (-40~+185F)  
Operating Humidity 95% ( unfreezing)