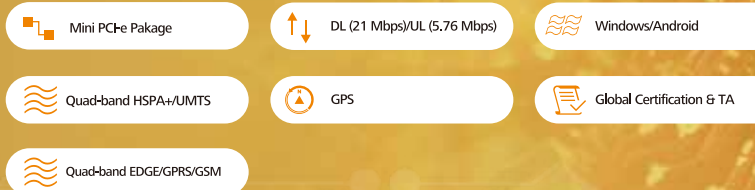




# HUAWEI

## EM820W

### HSPA+ CE Module



The EM820W is a HSPA+ wireless data module which supports Quad-band UMTS/HSPA+ and Quad-band GSM/GPRS/EDGE network.

EM820W compliance with standard Mini PCI-e form factor, easily for applications notebook, tablet etc.

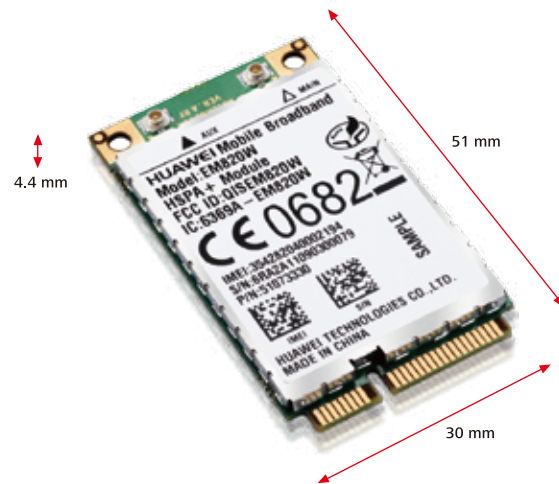
The EM820W provides GPS Standalone, A-GPS and GPS XTRA.

#### General Features

- Quad-band WCDMA/HSPA/HSPA+ 2100/1900/900/850 MHz
- Quad-band GSM/GPRS/EDGE 1900/1800/900/850 MHz
- GPRS/EDGE: Multi-slot Class 12, Class B
- Max. transmitter power  
WCDMA/HSPA/HSPA+ 2100/1900/900/850 MHz: +24 dBm (Power Class 3)  
GSM/GPRS 850 MHz/900 MHz: +33 dBm (Power Class 4)  
GSM/GPRS 1800 MHz/1900 MHz: +30 dBm (Power Class 1)  
EDGE 850 MHz/900 MHz: +27 dBm (Power Class E2)  
EDGE 1800 MHz/1900 MHz: +26 dBm (Power Class E2)
- Control via AT commands  
3GPP TS 27.007 and TS 27.005  
Huawei extended AT command
- SIM card supply voltage: 1.8 V & 3.0 V UICC (SIM/UICC/USIM)
- Supply voltage range 3.3 V  $\pm$ 9% (3.3 V is recommended)
- Temperature range  
Normal Operation: -10°C to +55°C  
Extended Operation: -20°C to +70°C  
Storage: -40°C to +85°C
- Humidity: 5% - 95%

# HUAWEI EM820W

## HSPA+ CE Module



- Dimensions: 51 mm x 30 mm x 4.4 mm
- Weight: <15g
- OS: Windows xp/ 7/8, Android 4.0

### Other Features

- GPS Standalone, A-GPS and GPS XTRA

### Data Features

- GPRS/EDGE: Multi-slot Class 12, Class B
- WCDMA PS: UL (384 kbps)/DL (384 kbps)
- UL/DL HSPA: UL (5.76 Mbps)/DL (7.2 Mbps)
- UL/DL HSPA+: UL (5.76 Mbps)/DL (21 Mbps)

### SMS Features

- Supporting MO and MT
- Supporting formats of PDU
- Point-to-point and cell broadcast

### Interfaces

- Antenna interface x 2
- Application interface (52-pin Mini PCI-e interface)
  - Power Supply
  - USB 2.0 high speed
  - UICC interface

### Approvals & Certifications

- CE
- FCC
- IC
- PTCRB
- GCF
- CCC
- RoHS/Halogen Free

#### Note:

Please refer to the latest version of Hardware Guide about the specifications. Huawei reserves the right to make changes or improvements to any to the products without prior notice.

