

DTW-600W

HSPA Wireless Module



The AnyDATA DTW-600W enables wireless connectivity in a host of devices for an expansive variety of verticals and applications including medical, security, safety, fire, military, commercial, asset tracking, finance and more. The first choice for OEM developers and product designers, the DTW series modules are embedded in an impressive portfolio of devices on the market today.



AnyDATA is a recognized leader in producing best-in-class products at a remarkable value. With over 15 years of engineering, design and carrier certification experience,

AnyDATA can leverage this expertise to enable developers to quickly and successfully bring new wireless devices and services to market. AnyDATA - enabling wireless success – how can we help enable yours?

- » **Ultra Small Size** – mere 21 x 22 x 4.5mm size is perfect for small footprint product designs
- » **Low Power Consumption** – lower drain on wireless devices for longer usage for end users
- » **Value** – competitively priced to lower product costs thus higher margins
- » **Accelerometer (3 Axis)** – ideal for wearable sensors, health and safety devices
- » **GPS/AGPS/gpsOneXTRA** – fast, accurate GPS connectivity for tracking and monitoring
- » **Bluetooth** – seamlessly synch devices and information wirelessly

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Technical Specifications, Wearable Mobile Device

Flexible Board Design

- Supports QSC6270 and HSDPA
- Supports US1

HSDPA/UMTS/EDGE/GPRS/GSM

- US1 – 850/1900/2100 MHz
- Quad-band EDGE/GPRS/GSM-850/900/1800/1900 MHz

Advanced RF Technologies

- Standalone GPS, AGPS, gpsOneXTRA™
- Bluetooth 2.0 SW driver included

Data Speeds

- HSDPA DL/UL – 3.6Mbps/384 Kbps
- WCDMA DL/UL – 384 Kbps/384 Kbps
- GSM DL/UL – 14.4 Kbps/14.4 Kbps
- GPRS DL/UL – 85.6 Kbps/42.8 Kbps
- EDGE DL/UL – 236.8 Kbps/118.4 Kbps

Power Class

- WCDMA 850/900/1900/2100 MHz – Power Class 3
- GSM/GPRS 850/900 MHz – Power Class 4
- GSM/GPRS 1800/1900 MHz – Power Class 1
- EDGE 850/900/1800/1900 MHz – Power Class E2

Dimensions and Weight

- Dimensions: 21 x 22 x 4.5mm
- Weight: 4 grams

Interfaces

- 90-pin board-to-board connector including:
 - USB 2.0
 - Bluetooth 2.0 (off module)
 - I2C
 - LCD (parallel or I2C)
 - Camera (3M Pixel support)
 - Keypad (5x5 matrix)
 - Keypad backlight
 - 2 LED control lines
 - Vibrator control
 - General purpose PDM (LCD backlight and brightness control)
 - Audio – handset, headset, speakers
 - Primary antenna RF coax connector for both modem and GPS
 - Secondary RF coax conn. For GPS

Misc. Features

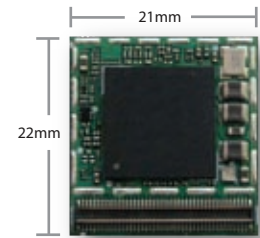
- On board accelerometer (Bosch, SMB380/BMA 150, 3-axis)
- USB charging (Li-Ion)
- Interface voltages (1.8v, 2.6v, 2.85v)

Module Software

- AMSS62x0, version TBD

APIs & SDKs

- BREW
- AT command interface
- Documentation



STANDARDS/CERTIFICATIONS

- 3GPP Release 99 (full)/Release 4 (partial) for GSM/GPRS/EDGE
- 3GPP Release 5 for WCDMA/HSDPA
- gpsOne™
- PTCRB
- Operator compliance
- Infrastructure IOT compliance
- FCC type acceptance
- R&TTE Directive 1999/5/EC compliant
- RoHS Directive 2002/95/EC compliant
- WEEE Directive 2002/95/EC compliant

POWER

- Operating Vcc : 3.5V-4.2V [cutoff 3.4V]
- USB Charging (Li-ion): 5V ± 10%, 500mA

POWER CONSUMPTION (TYPICAL)

- Off < 25uA
- Sleep < 2mA
- Stand < 3mA
- HSDPA Call < 300mA [0dBm]
- HSDPA Call < 620mA [23dBm]
- GSM Call < 300mA [30dBm]
- GPS Call < 80mA [Standalone]

ENVIRONMENTAL

- Operating Temperature: -20°C to +60°C
- Storage Temperature: -55°C to +100°C

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