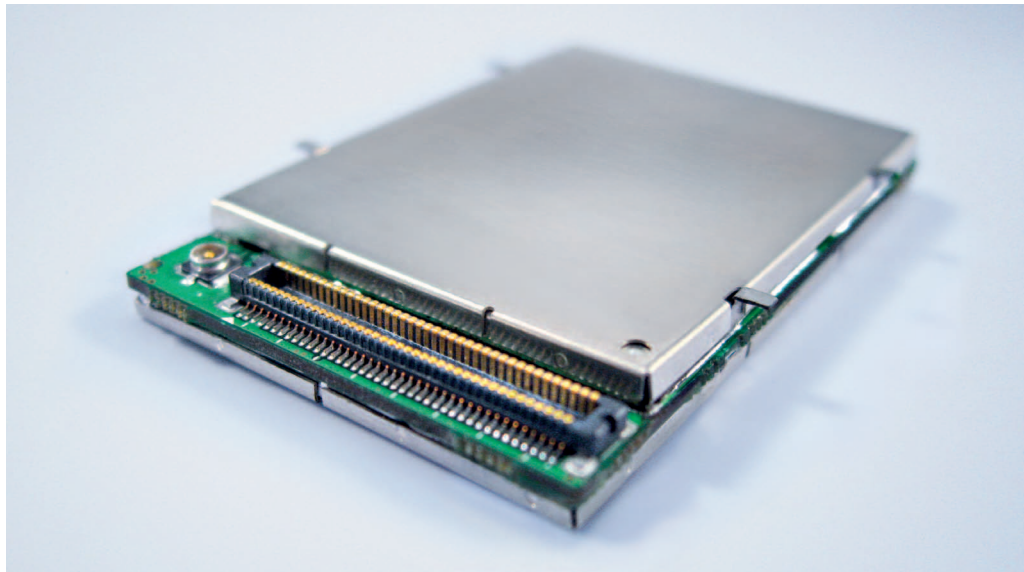















## UMTS | WEDGE

# UC864-WD

Compact



	Ultra Compact
	Telit Unified AT Command Set
	Telit Unified Form Factor
	Multi Band
	Dual Band UMS WEDGE
	Dual Band Edge
	Dual Band GPRS
	RoHS Compliant
	80 Pin Connector
	USB 2.0 Full Speed Compatible
	Extended Temperature Range
	Extended RF Sensitivity
	Embedded TCP/IP Stack



The UC864-WD is a 3G wireless data module designed to be fully compatible with Telit's GSM/GPRS and CDMA products in the compact, unified form factor family. This enables integrators and developers to design their applications once and take advantage of the truly global coverage and service flexibility afforded by the combination of the two most prevalent cellular technologies worldwide.

UC864-WD is a UMTS data only solution for medium to high quantity projects, where high data rate capability of the HSDPA is not required. The maximum throughput is therefore 384kb in both downlink and uplink directions. Voice capability on the UC864-WD is not supported. UC864-WD is dual band UMTS in 900/2100 MHz and dual band GSM/GPRS/EDGE in 900 and 1800 bands.

With its ultra-compact design, and extended operating temperature range, the Telit UC864-WD is the perfect platform for medium-to-high-volume m2m applications and mobile data and computing devices.

Additional features such as, integrated TCP/IP and UDP, a three channels ADC and one channel DAC provide extended functionality, adding value to the end application without adding cost. The UC864-WD is designed to provide customers with global network coverage. It's also fully backward compatible to existing EDGE and GSM/GPRS networks through accomplished dual-band radios. The extensive interface set, which includes IIC and user definable GPIO, provides ease of integration of peripherals and actuators.

As part of Telit's commitment to protecting the customer investment in developing and deploying Telit based solutions, the UC864-WD supports Over-the-Air firmware update by means Premium FOTA Management. By embedding RedBend's vCurrent® agent, a proven and battle-tested technology powering hundreds of millions of cellular handsets world-wide Telit is able to update its products by transmitting only a delta file, which represents the difference between one firmware version and another.

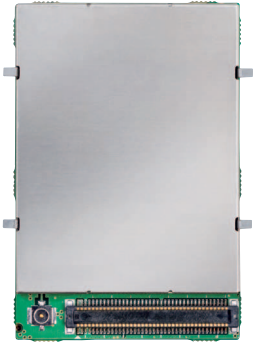
As a part of Telit's corporate policy of environmental protection, all Telit products comply to the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

### Product features

- UMTS 384 Kbps
- UMTS (WCDMA) 900 / 2100 MHz
- Dual-band EGSM 900 / 1800 MHz
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Dimension: 30 x 45 x 4,8 mm
- Weight: 12,8 grams
- Extended temperature range  
-30°C to +80°C (operational)  
-40°C to +90°C (storage temperature)

# UC864-WD

Compact



actual size

## Interfaces

- 80-pin Molex connector
- 1.8/3V UICC SIM card interface
- 22 GPIOs, 3 A/D and 1 D/A converter
- USB 2.0 full speed interface
- 50 Ohm murata GSC antenna connector
- ITU-T V.24 serial link through CMOS UART, PCM interface
- Buzzer output

## Approvals

- CE and GCF

## Data

- UMTS/WCDMA  
Downlink/Uplink up to 384 kbps
- EDGE  
- Downlink up to 236.8 kbps  
- Uplink up to 118 kbps
- GPRS  
- Downlink up to 85.6 kbps  
- Uplink up to 42.8 kbps  
- PBCCH support
- CSD  
Downlink/uplink up to 14.4 kbps

## Electrical

- Output power
  - Class 4 (2 W, 33 dBm) @ GSM 900
  - Class 1 (1 W, 30 dBm) @ GSM 1800
  - Class 3 (0.25 W, 24 dBm) @ UMTS
  - Class E2 (0.5 W, 27 dBm) @ EDGE 900
  - Class E2 (0.4 W, 26 dBm) @ EDGE 1800
- Sensibility
  - -108.2 dBm @ UMTS 900/2100 MHz
  - -107 dBm @ GSM 900 MHz
  - -106 dBm @ DCS1800 MHz
- Supply voltage
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.2 VDC
- Power consumption
  - Off: < 26  $\mu$ A
  - Idle @ GSM Mode: < 3.3 mA
  - Idle @ UMTS Mode: < 4.1 mA
  - WCDMA data channel < 680 mA @ worst network conditions
  - GPRS Class 12 < 790 mA @ worst network conditions
  - EGPRS Class 12 < 560 mA @ worst network conditions

## Additional features

- SMS
- TCP stack with IP and UDP protocols
- Standard and extended AT command set
- Minimal power consumption
- PFM (Premium FOTA Management)  
Over the Air Update
- MUX driver for WinCE
- RIL Driver for WinCE
- USB Driver for WinCE, WinXP/Vista/W7,  
Linux and QNX.

## Order-No.

Please contact your Telit representative for order codes and all further information

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