
















## UMTS | HSDPA 7.2

# UC864-E-AUTO

Compact



-  Ultra Compact
-  Telit Unified AT Command Set
-  Telit Unified Form Factor
-  Designed for Automotive Applications
-  Multi Band
-  Single Band UMS/HSDPA 7.2
-  Quad Band Edge
-  Quad Band GPRS
-  RoHS Compliant
-  80 Pin Connector
-  Landing Pads for B2B Antenna Connector
-  Extended RF Sensitivity
-  Extended Temperature Range
-  Extended RF Sensitivity
-  Embedded TCP/IP Stack

The UC864-E-AUTO is a 3.5G 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. The UC864-E-AUTO offers landing pads for board to board RF mating, eliminating the need for expensive coaxial RF cable.

Designed to minimize costs of applications local to the European market, the UC864-E-AUTO features a single-band 2100MHz UMTS/HSDPA radio.

With its ultra-compact design, and extended operating temperature range, the Telit UC864-E-AUTO 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, and a three channel ADC provide extended functionality, adding value to the end application without adding cost.

The UC864-E-AUTO is also fully backward compatible to existing EDGE and GSM/GPRS networks through integrated quad-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 boasts a range of functions for over-the-air maintenance and management of firmware and application software in the module.

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

- HSDPA 7.2 Mbps
- UMTS/HSDPA (WCDMA/FDD) 2100 MHz
- Quad-band EGSM 850 / 900 / 1800 / 1900
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Manufactured under TS16949 Quality specifications
- Dimension: 30 x 36.2 x 4.8 mm
- Weight: 10 grams
- Extended temperature range
  - 20°C to +65°C (fully operating mode)
  - 30°C to +85°C (restricted operating mode)
  - 40°C to +90°C (storage mode)



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Compact



actual size

## Interfaces

- 80-pin Molex connector
- 1.8/3V UICC SIM card interface
- IIC, GPIOs and A/D converter
- USB 2.0 full speed interface
- RF connector, external antenna port
- Landing Pads for Rosenberger B2B connector 99CI106-030Z
- UART, PCM interface
- Buzzer output

## Approvals

- CE, GCF

## Data

- HSDPA
  - Downlink up to 7.2 Mbps
  - Uplink up to 384 kbps
- 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
- Available modes of operation
  - AT commands on UART & data on USB
  - AT commands on USB & data on UART

## Electrical

- Output power
  - Class 4 (2 W, 33 dBm) @ GSM 850 / 900
  - Class 1 (1 W, 30 dBm) @ GSM 1800 / 1900
  - Class 3 (0.25 W, 24 dBm) @ UMTS
  - Class E2 (0.5 W, 27 dBm) @ EDGE 850/900
  - Class E2 (0.4 W, 26 dBm) @ EDGE 1800/1900
- Supply voltage
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.2 VDC
- Power consumption
  - Off: < 26  $\mu$ A
  - Idle @ mode GSM: < 3.3 mA
  - Idle @ mode UMTS: < 4.1 mA

## Additional features

- Voice and SMS
- Remote SIM Access
- TCP stack with IP and UDP protocols
- Standard and extended AT command set
- Minimal power consumption
- Firmware upgradeable via USB or via OTA
- Accurate Temperature Sensor

## Order-No.

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