















UMTS | HSDPA 7.2

UC864-E-AUTO Compact



-  Ultra Compact
-  Telit Unified AT Command Set
-  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
-  Automotive Temperature Range
-  USB 2.0 Full Speed Compatible
-  Extended RF Sensitivity
-  Embedded TCP/IP Stack



TELIT INFINITA SERVICES



The UC864-E-AUTO is a 3.5G wireless data module designed to be 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 distinguishes itself by offering landing pads for board to board RF mating, eliminating the need for an expensive coaxial RF cable.

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

With its ultra-compact design, and automotive grade operating temperature range, the Telit UC864-E-AUTO is the perfect platform for medium-to-high-volume telematics, infotainment, m2m applications and mobile data and computing devices. Additional features such as, integrated TCP/IP and UDP stack, and a three channel ADC provide extended functionality, adding value to the end application without adding cost.

The UC864-E-AUTO is also fully backwards compatible to existing EDGE and GSM/GPRS networks through integrated quad-band radios. The extensive interface set, which includes digital audio and user definable GPIOs, 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
- Dimensions: 30 x 36.2 x 4.8 mm
- Weight: 10 grams
- Reference Ambient Temperature Range
 - 10°C to +55°C (normal operating)
 - 20°C to +70°C (extended operating)
 - 30°C to +85 (extreme range*)
 - 40°C to +85°C (storage)

* Contact Telit for mission profiles and possible restrictions and guidance on use in this range.

UC864-E-AUTO

Compact



actual size

Interfaces

- 80-pin Molex connector
- 1.8/3V UICC SIM card interface
- Digital audio, GPIOs, D/A and A/D converters
- USB 2.0 full speed interface
- RF port landing Pad for Rosenberger B2B connector 99C1106-030Z
- USB, UART and PCM interfaces
- 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
- CDSD
 - 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] @ GSM850 / 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] @ EDGE850/900
 - Class E2 [0.4 W, 26 dBm] @ EDGE1800/1900
- Sensitivity
 - -108.2 dBm @ WCDMA 2100 MHz
 - -107 dBm @ GSM 850 / 900 MHz
 - -106 dBm @ DCS1800 / PCS1900 MHz
- Supply voltage
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.2 VDC
- Power consumption
 - Off: < 26 μ A
 - Idle @ mode GSM: < 3.3 mA
 - Idle @ mode UMTS: < 4.1 mA
 - WCDMA voice channel < 690 mA @ worst network conditions
 - GSM voice channel < 317 mA @ worst network conditions
 - WCDMA data channel < 680 mA @ worst network conditions
 - HSDPA channel < 730 mA @ worst network conditions
 - GPRS Class 12 < 790 mA @ worst network conditions
 - EGPRS Class 12 < 560 mA @ worst network conditions

Additional features

- Voice and SMS
- Remote SIM Access
- TCP stack with IP and UDP protocols
- Standard and extended AT command set
- Minimal power consumption
- PFM (Premium FOTA Management) Over the Air Update
- Internal Temperature Sensor
- Various operating system drivers

Order-No.

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

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