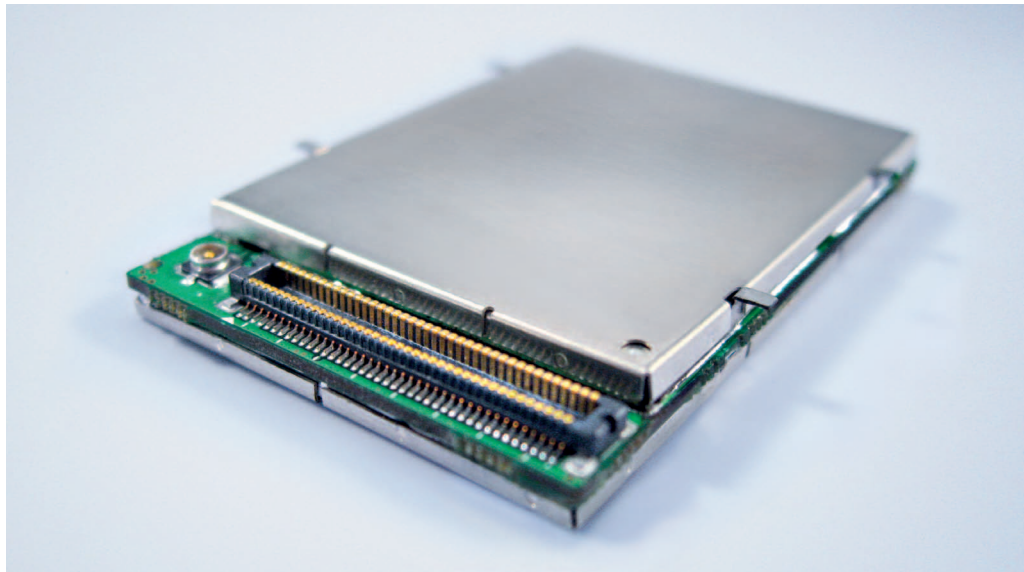


UMTS | HSDPA 7.2

UC864-E-DUAL Compact



- Ultra Compact
- Telit Unified AT Command Set
- Telit Unified Form Factor
- Multi Band
- Dual Band UMS | HSDPA 7.2
- 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

TELIT INFINITA SERVICES

Premium FOTA Management

The UC864-E-DUAL 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.

The UC864-E-DUAL was designed for applications requiring global portability afforded by a radio structure comprised of dual-band support to GSM/GPRS/EDGE and dual-band UMS including the new emerging UMS 900MHz band service.

With its ultra-compact design, and extended operating temperature range, the Telit UC864-E-DUAL 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-E-DUAL is designed to provide customers with global network coverage. It's also fully backward compatible to existing EDGE and GSM/GPRS networks through accomplished dualband 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-E-DUAL 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

- HSDPA 7.2 Mbps
- UMS/HSDPA (WCDMA/FDD) 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-E-DUAL

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

- HSDPA
 - Downlink up to 7.2 Mbps
 - Uplink up to 384 kbps
- WCDMA
 - Downlink/Uplink up to 384 kbps
- EDGE
 - Downlink up to 236 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 @ DCS 1800 MHz
- Supply voltage
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.2 VDC
- Power consumption
 - Off: < 26 μ A
 - Idle @ GSM Mode: < 3.3 mA
 - Idle @ UMTS Mode: < 4.1 mA
 - GSM voice channel < 317 mA @ worst network conditions
 - HSDPA data channel < 730 mA @ worst network conditions
 - 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

- Voice and 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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Distributed by:

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