



UMTS | HSPA

H24 Compact



3 HSP	Tri Band UMTS/HSPA
4 GSM	Quad Band GPRS
	GPS Receiver
	Extended RF Sensitivity
	Embedded TCP/IP Stack
	SSL - Secure Connection
	Extended Temperature Range
	RoHS Compliant
	24 Family Form Factor
SIM	Embedded SIM

It's time for M2M to enter the next level with the H24, a series of 3.5G wireless modules. The H24 features blazing fast HSUPA/HSDPA connectivity, taking advantage of global 3.5G deployment while still leveraging backwards compatibility with GSM/GPRS and EDGE networks.

Realize the full potential of M2M with true broadband connectivity, especially where traditional infrastructure does not exist. The HSPA-powered H24 opens the door for new and innovative solutions in which bandwidth is no longer an obstacle.

The H24 series is offered in three tiers, providing you with the ideal feature set for your M2M needs.

The H24basic offers a state of the art 3.5G solution, including a 5.76Mbps uplink data rate, highspeed USB 2.0 and enhanced audio. Leverage the H24basic's rich set of features to empower your mobile office with phone, fax and wireless broadband internet. The H24basic also includes built-in internet and security protocols, making it an efficient solution for both home and commercial security systems.

The H24advanced shares all of the H24basic's features, and adds improved RF performance thanks to best-in-class receiver diversity. On-board GPS capabilities are also part of the H24advanced, making it a powerful solution for any location-based application facing harsh network conditions.

The H24premium brings even more value to the H24 Series with embedded SIM technology, enabling increased robustness and security to your solution.

The H24 HSPA Series is made up of 4 individual versions, offering various HSPA-band combinations for broadband connectivity wherever you need. All versions also support quad-band GSM/GPRS/EDGE.

The H24 Series includes:

- H24 Single 2100 MHz
- H24 Global 850/1900/2100 MHz
- H24 NA 850/1900/1700-2100(AWS) MHz
- H24 Dual 900/2100 MHz

The H24 is built with Telit's time-tested "24" family form-factor, giving you flexibility with a single design solution for zero time, zero effort integration. Telit's renowned commitment to quality and dedicated support continue to set the standard for M2M. Our products and manufacturing processes are held to the harshest industry standards, providing modules that are built to last. From design phase to accreditation, Telit is here for you.

H24

Compact



Product Features

Supported Bands

- Quad Band GSM 850/900/1800/1900 MHz (Available in all 4 versions of the H24)
- UMTS/HSPA bands:
 - H24 Global 850/1900/2100 MHz
 - H24 Single 2100 MHz
 - H24 NA 850/1900/1700-2100(AWS) MHz
 - H24 Dual 900/2100 MHz

Data Features

- UMTS/HSDPA/HSUPA 3GPP release 6
- GSM/GPRS 3GPP release 9
- Coding Scheme CS1-CS4
- Max uplink 5.76Mbps
- Max downlink 7.2Mbps
- UE CAT [1-8], 11, 12 supported
- Compressed mode [3GPP TS25.212]

EDGE

- Multi-slot class 12
- Coding Scheme MCS1-MCS9
- CSD
- UMTS Max baud rate 64 Kbps
- GSM Max baud rate 14.4 Kbps

GPS

- Multimode GPS (Standalone and Assisted) 1575 MHz

Physical

- Size: 24.4 x 45.2 x 5.4 mm (6.1mm stacking height)
- Mounting: two 2.4 mm holes
- Weight: < 10 grams

Environmental

- Operating temperature: -30°C to +65°C
- Restricted Temperature: -30°C to +85°C
- Storage temperature: -40°C to +85°C

Performance

Operating Voltage

- Voltage: 3.3V - 4.2V

Current Consumption

- < 1.5mA @DRX9 (Sleep Mode)

TX Power

- UMTS/HSPA – Class 3 (0.25 Watt)
- GSM 850/900 MHz – Class 4 (2Watt)
- GSM 1800/1900 MHz – Class 1 (1Watt)
- EDGE 850/900 MHz – Class E2 (0.5Watt)
- EDGE 1800/1900 MHz – Class E2 (0.4Watt)

Interfaces

Connectors

- Single 70 pin board to board
- RF
- Main antenna – MMCX / Pad
- Diversity antenna – U.FL
- GPS antenna – U.FL

Connectivity

- USB 2.0 high speed
- Multi channels over USB
- Fast UART: baud rate up to 4 Mbps

Operating Systems Supported

- Windows® XP & Vista
- Linux

Additional Features

- Embedded TCP/IP and UDP/IP
- SSL-Secure Connection
- Digital voice and sms
- Control via AT commands according to 07.05, 07.07 and customized AT commands

Enhanced Audio

- Broad gain control
- Filter Control
- Echo cancellation
- Noise suppression
- Side tone

Control / Status Indications

- 8 GPIO's
- UMTS/GSM Network coverage
- Wake up in/out
- Temperature sensor
- Voltage sensor
- Dedicated coin cell pin

Regulatory and Approvals

- FCC, IC
- GCF
- ANATEL
- PTCRB
- RoHS/WEEE
- ACMA
- R&TTE
- CE
- BABT

Additional Features per H24 Model

H24basic

- + Enhanced Audio
- + High-Speed USB 2.0

H24advanced

- H24basic, plus:
- ++ Receiver Diversity
- ++ On-board GPS

H24premium

- H24advanced, plus:
- +++ EmbeddedSIM (eSIM)



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