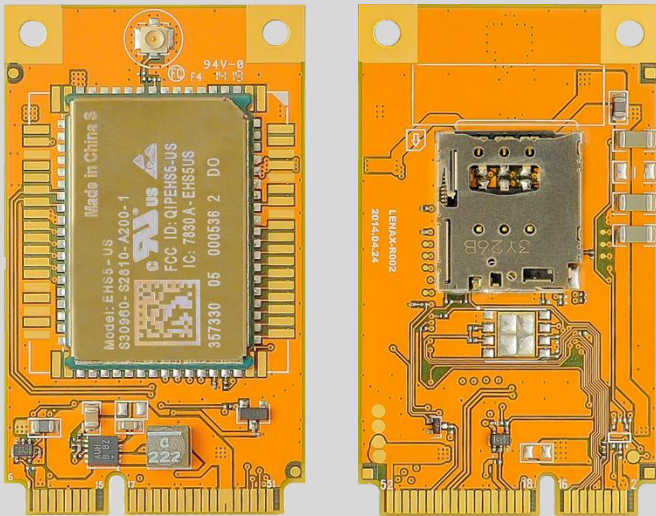




Z-EHS5-U

3G Industrial Wireless Module



Optimized for the Fastest 3G Networks

The new Zcomax Z-EHS5-U industrial wireless module offers a smart solution for wireless connectivity today and in the future. With 3G technology, the Z-EHS5-U is optimized for high bandwidth computing, enabling high transfer speeds for uploads and downloads in mobile networks.

The Z-EHS5-U devices are based on the Mini PCI Express standard with a USB 2.0 interface. Supporting a wide variety of advanced air interface protocols, the Z-EHS5-U wireless module enables any mobile computing device to become an outstanding communication tool.

Highlights

- 7.2Mbps maximum data rate
- Mini PCI Express form factor
- USB 2.0 HS Interface up to 480 Mbps
- Intel XMM 6250 chipset
- u.FL antenna connector
- Multiple OS support
- Perfect for M2M Applications
- Java Micro Edition 3.2
- Multiple carrier / regulatory approvals
- -40°C ~ 85°C operating temperature
- Optimized for low power consumption

High-Speed Connectivity for a Wide Range of Solutions

Perfectly suited for a wide array of network applications, including ruggedized mobile computing, security solutions, medical equipment, payment systems, video streaming, mobile routing, and many others.

Includes Java™ Open Platform

Java offers easy and fast application development, a broad choice of tools, high code reusability, easy maintenance, a proven security concept, on-device debugging as well as multi-threading programming & execution.

Z-EHS5-U Specifications

Hardware	
Chipset	Intel XMM 6250
Embedded memory	10MB RAM + 10MB Flash file system

Air Interface	UMTS / HSPA	GSM / GPRS / EDGE
3GPP Compliance	Release 7	Release 98
UE Category	DL Category 8 / UL Category 6	Class 12
Frequency	850 / 1900 (MHz)	850 / 1900 (MHz)
Bands	Bd5, Bd2	Dual band
Data Speed (max)	7.2Mbps (DL) / 5.76Mbps (UL)	237Kbps (DL) / 237Kbps (UL)
Channel Access	W-CDMA / FDD	TDMA / FDD

RF Characteristics	Category	Transmit Power	Class
Output Power (Rel.99)	EGSM 850	33dBm ±2dB	Class 4
	GSM 1900	30dBm ±2dB	Class 1
	GSM 850 8-PSK	27dBm ±3dB	Class E2
	GSM 1900 8-PSK	26dBm +3/-4dB	Class E2
	UMTS 850	24dBm +1/-3dB	Class 3
	UMTS 1900	24dBm +1/-3dB	Class 3

Antenna (Voice/Data)	
Impedance	50 Ohm
Antenna Connector	u.FL

Interfaces / Form Factor	
Form Factor	Mini PCI Express
Host Interface	USB 2.0 High Speed (480Mbit/s)
UICC / SIM Electrical Interface	1.8V / 3V 4-Wire interface via Mini PCI Express
UICC / SIM Socket <i>(optional)</i>	Micro SIM, 1.8V / 3V
Audio <i>(optional)</i>	PCM digital interface
Reset	Signal line to reset module
Status	Signal line to indicate the network connectivity state
Dimensions	51.0mm (L) x 30.0mm (W) x 4.75mm (H)

Electrical	
Voltage	3.3V +/- 0.3V
Current Consumption (HSPA @ 850MHz)	Sleep mode: 1.6mA
	Idle (USB active): 50mA
	Data transfer: 550mA

Audio (Optional)	
Operating Mode	Master
Synchronization	Long frame
Sample Rate	8kHz @16bit
Bit Clock	256kHz

Software Control	
AT Commands	Hayes, TS 27.007, TS 27.005 & proprietary API



Z-EHS5-U Specifications

Driver Support

Windows	Windows 8, Windows 7, Windows Vista, Windows XP, Windows EC
Linux	Yes
Android	Yes

JAVA Open Platform

Platform	Java Micro Edition (ME) 3.2
Memory	6MB RAM and 8 MB Flash file system
Security	Secure data transmission with HTTPS / SSL
Multi-Thread Support	Multi-Threading programming and Multi-Application execution

Regulatory & Safety Approvals

Environmental	RoHS and REACH compliant, EuP support
RF & Safety	FCC, PTRCB, UL, IC
Carrier Certifications	AT&T, Rogers

Environmental

Operating Temperature	-40 °C ~ 85°C (board temperature)
Storage Temperature	-40 °C ~ 95°C
Humidity	5 ~ 95% relative humidity non-condensing

Ordering Information

Z-EHS5-U	Base module
Z-EHS5-U-S	Integrated SIM card slot
Z-EHS5-U-V	Support for voice

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Document DS-ZEHS5-U 1.4 10002 150824