

# DATA SHEET HISILICON HI2110V120 WIRELESS MODULE

## KEY BENEFITS

Single-die, SoC chip-integrated MCU/BB/RF/PMU/Flash/SRAM
VFBGA (5.3 x 5.3) mm
Ultra-low power standby mode (typically 12 µW including memory retention)
Up to +20 dB extended coverage compared to GPRS (164 dB MCL)
Supports 3GPP Rel. 13 NB-IoT air interfaces and protocols
Up to 20 PIOs on up to three (externally provided) supplies
Dedicated application process with on-chip memory
Extended temperature range of -40 °C to +85 °C
Operates over 698-960 MHz
UDP/IP
Non-IP based Small Data over NAS and SMS

## NETWORK

<b>3GPP Protocol Stack Compliancy</b>	Release 13
<b>Support for TS.34 IoT Communication Efficiency</b>	None
<b>Wireless Protocol Support</b>	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
eMTC	None
NB-IoT	Supported
<b>Frequency Band Support</b>	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	B8, B20
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1

<b>Short Message Service (SMS) *</b>	Text, PDU
<b>Speech Codecs</b>	None
<b>Protocol Support</b>	CoAP, UDP
<b>Firmware Updates</b>	Over-the-air update service, UART
<b>Integrated Positioning Technology</b>	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

## HARDWARE / SOFTWARE

<b>Operating System</b>	Customer-provided
<b>CPU</b>	
Clock Speed	48 MHz
Cores	ARM Cortex M0
<b>Security Features</b>	
Secure Boot	No supported
HW Crypto Engine	No supported
Wireless Protocol Security	RDK supports DTLS
Secure Debug	SWD debug access
Secure Storage / Key Provisioning	SecureCore protected memory
Supplier Features	Partitioned for security: - Application - Protocol - SecureCore System resource protected by Secure Core policies

\* Note: SMS is not supported on the Deutsche Telekom NB1 network.



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## CERTIFICATION DETAILS

Deutsche Telekom Certification Date (Initial Firmware)	10.09.2018 (V100R100C10B657SP6)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	<b>Full</b> (Resolution of chipset-specific issues necessary, as per technical report)
<b>Deutsche Telekom Affiliate Country Codes</b>	
AL	Telekom Albania
AT	T-Mobile Austria GmbH
CZ	T-Mobile Czech Republic a.s.
DE	Telekom Deutschland GmbH
GR	COSMOTE Mobile Telecommunications S.A.
HR	Hrvatski Telekom d.d.
HU	Magyar Telekom Telecommunications plc
ME	Cmogski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.B.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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