

DATA SHEET ALTAIR ALT1250 WIRELESS CHIPSET

KEY BENEFITS

Ultra Low Power
Integrated MCU for User Applications
iUICC & Integrated HW Application security
OneSKU™ RF Solution & Integrated GPS

NETWORK

3GPP Protocol Stack Compliancy	Release 13
Support for TS.34 IoT Communication Efficiency	Radio Policy Manager (RPM)
Wireless Protocol Support	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
LTE-M	Supported
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
LTE-M (MHz)	B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20,B25, B26, B28, B39
NB-IoT Bands (MHz)	B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20,B25, B26, B28, B39
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
LTE-M Category	M1
NB-IoT Category	NB1
Short Message Service (SMS)	Supported
Speech Codecs	None
Protocol Support	UDP, TCP, LWM2M, MQTT-SN, CoAP, Non-IP, IPv4, IPv4v6, IPv6
Firmware Updates	Supported
Integrated Positioning Technology	
GPS	Supported

GLONASS	Supported
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
Regulatory	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	5.84 x 4.27 x 0.06
Weight (g)	<1
On-board Memory	1MB
Operating Temperature – Extended Operation (°C)	- 40°C to +85°C
Supply Voltage Range (V)	2.1 - 4.35
Interfaces	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8V
ADC and I2C	None
Digital Audio, prepared for Analog Audio	None

1) Device not certified by Deutsche Telekom for LTE-M deployment



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	27.05.2019
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	Limited (technical issues must be addressed)
Deutsche Telekom Affiliate Country Codes	
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	Comorgski 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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