

# DATA SHEET SHANGHAI NOTION INFORMATION TECHNOLOGY OT01-5 WIRELESS MODULE

## KEY BENEFITS

Rich resources with motor driver and both external and embedded SIM support
Support for 24 bit differential ADC
Customized device management platform
Suitable for water/gas meters, smart smoke detectors, smart home, smart city applications

## NETWORK

<b>3GPP Protocol Stack Compliance</b>	Release 14
<b>Support for TS.34 IoT Communication Efficiency</b>	Supported
<b>Wireless Protocol Support</b>	
2G/GPRS	None
3G/UMTS	None
4G/LTE	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)	B1, B3, B5, 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>	UDP, TCP, LWM2M / CoAP / MQTT / PPP / HTTP / HTTPS / SSL / TLS / DTLS
<b>Firmware Updates</b>	UART, USB, FOTA
<b>Integrated Positioning Technology</b>	
GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	None

SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

## HARDWARE

Dimensions (L x W x H, mm)	18 x 16 x 2.1
Weight (g)	2
Operating Temperature - Extended Operation (°C)	-40 to +85
Supply Voltage Range (V)	3.3 - 4.2
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	Supported
GPIO Lines	3, Rich
UICC and U/SIM (1.8 V/3 V)	Supported, 1.8V / 3V
ADC and I2C	ADC*1, I2C*2
4-Wire HS Serial Interfaces ASC1	Supported
Digital Audio, prepared for Analog Audio	None



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## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	25.04.2019 (OT01-5_DT_NX_V001)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, HU, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	<b>Limited</b>

## 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.
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NL	T-Mobile Netherlands B.B.
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