

DATA SHEET SHANGHAI NOTION INFORMATION TECHNOLOGY OT01-3 WIRELESS MODULE

KEY BENEFITS

| |
|-------------------------------------------------------------------------------------------|
| Rich resources with motor driver and eSIM inside |
| Support for 24-bit differential ADC |
| Customized device management platform |
| Suitable for water/gas meters, smart smoke detectors, smart home, smart city applications |

NETWORK

| | |
|-------------------------------------------------------|-----------------------------------------------------------------------|
| 3GPP Protocol Stack Compliance | Release 13 |
| Support for TS.34 IoT Communication Efficiency | Supported |
| Wireless Protocol Support | |
| 2G/GPRS | None |
| 3G/UMTS | None |
| 4G/LTE | None |
| NB-IoT | Supported |
| Frequency Band Support | |
| 2G Bands (MHz) | None |
| 3G Bands (MHz) | None |
| 4G Bands (MHz) | None |
| NB-IoT Bands (MHz) | B1, B3, B5, B8, B20 |
| 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 |
| NB-IoT Category | NB1 |
| Short Message Service (SMS) | Text, PDU |
| Speech Codecs | None |
| Protocol Support | UDP, TCP, LWM2M / CoAP / MQTT / PPP / HTTP / HTTPS / SSL / TLS / DTLS |
| Firmware Updates | UART, USB, FOTA |
| 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) | 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 |
| Interfaces | |
| USB 2.0 (480 Mbps) | None |
| ASC0 HS Serial Modem | Supported |
| GPIO Lines | 3 |
| UICC and U/SIM (1.8 V/3 V) | Supported, 1.8V / 3V |
| ADC and I2C | ADC*1, I2C*1 |
| 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) | OT01_DT_NX_V002 |
| Certified Deutsche Telekom Affiliates | AT, CZ, DE, HR, NL, PL |
| Certifying Entity | DTAG ITS-IVA |
| DT Certification Type (Conditions) | Limited |

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 | Cmorgski 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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