

ALAS5 SLIM



Availability
>2030

Kontron LTE NAD 2x2 MIMO Cat6 slim modem



OVERVIEW

- Automotive LTE Advanced Pro platform Cat 6
- 2 antenna design to enable:
 - 2 DL CA (intraband + interband)
- Integrated gpsOne 9HT support (GPS, Glonass, Beidou, Galileo)
- Based on Qualcomm MDM 9x50 platform

MAX. DATA THROUGHPUT

- 2CA DL up to 300 Mbps (64 QAM)
- 1 UL up to 50 Mbps (16 QAM)

GENERAL FEATURES

- LTE Advanced up to 3GPP Rel.11
- LTE Advanced Pro up to 3GPP Rel.12, Rel.13
- SIM Application Toolkit, letter classes b, c, e with BIP and RunAT support
- Control of Modem via standardized and extended AT commands (Hayes, TS 27.007 and 27.005)
- EU eCall / ERA GLONASS support
- Supply voltage range: 3.3 - 4.2 V
- Dimension: 40 x 36 x 3mm
- Operating temperature: -40°C to +95°C
- RoHS compliant, WEEE compliant

SPECIAL FEATURES

- AECQ100 grade 2 memory:
 - slim modem: 4Gbit Flash/2Gbit RAM

INTERFACES

- 2 antenna design
- 3 ADC inputs for antenna detection circuitry
- Complete USB3.0 interface
- User Interfaces (UART, I²C, I²S/PCM, SDIO, USIM)
- >10 GPIO

VARIANTS

- Rest of World (-W)
 - GSM: 850, 900, 1800, 1900MHz
 - UMTS: B1, B3, B5, B6, B8, B19
 - FDD-LTE: B1, B3, B5, B7, B8, B18, B19, B20, B26, B28, B32
 - TD-LTE: B34, B38, B39, B40, B412)
- Americas (-AM):
 - GSM: 850, 900, 1800, 1900MHz
 - UMTS: B2, B4, B5
 - FDD-LTE: B2, B4, B5, B7, B12, B13, B28, B29, B30¹⁾, B66

Certifications & APPROVALS

- CE, RED, FCC, UL, GCF, PTCRB (variant specific)
- MNO certifications (variant specific)

¹⁾Band 30 support is disabled by means of software due to AT&T advice (subject to change in future).

²⁾Out of the 3GPP-specified frequency range for LTE Band 41, only that part which is used in China and Japan (2545MHz to 2655MHz) is supported by ALAS5. Therefore, support for Band 41 is disabled by means of software in ALAS5-W.