SCU3 SERIES
BROADBAND VEHICLE DEVICE

Designed to be a flexible solution to fit all types of vehicles, the SCU3 supports mission critical LTE Data and Voice services, plus Wi-Fi, Bluetooth®, Global Navigation Satellite System (GNSS), Ethernet, USB and dual touch screen connectivity. The device also provides a native Android OS capability for running apps such as Mission Critical Push-To-Talk (MCPTT) onboard, removing the need for external devices. Enabling future flexibility with options for a TETRA and secondary LTE modem, the SCU3 meets customer needs for both wireless narrowband and broadband communications simultaneously.

DIMENSIONS

Height: 55mm
Width: 180mm
Depth: 112mm

WEIGHT

Transceiver – 820g

POWER SUPPLY

6-36V DC

FREQUENCY BANDS

LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 (A+B)
LTE TDD: B38/B39/B40/B41
WCDMA: B1/B2/B4/B5/B8
GSM: 850/900/1800/1900MHz

RF PERFORMANCE

Class 4 (33dBm±2dB) for GSM850
Class 4 (33dBm±2dB) for EGSM900
Class 1 (30dBm±2dB) for DCS1800
Class 1 (30dBm±2dB) for PCS1900
Class E2 (27dBm±3dB) for GSM850 8-PSK
Class E2 (27dBm±3dB) for EGSM900 8-PSK
Class 3 (23dBm±2dB) for LTE-FDD bands
Class 3 (23dBm±2dB) for LTE-TDD bands

SUPPORT FOR 3GPP E-UTRA

Release 12 including support for QoS Class Identifiers (QCIs) 65, 66, 69 and 70 plus the associated Allocation and Retention Priority (ARP)
Bandwidth: 1.4/3/5/10/15/20MHz
LTE Cat 6 Modem with upto 2 × 20MHz Carrier Aggregation
Support Rx-diversity, DL MIMO 2 × 2

Multiple Access Point Names (APN) support
Multiple Traffic Flow Templates configuration per SIM
VoLTE with SRVCC to 3G and 2G
HD and Ultra HD Voice (EVS)

SIM Card

2 x micro SIM card (Dual Standby)
Optional mini SIM for TETRA
SIM Application Toolkit (3GPP TS 31.111)

WLAN

2.4G/5G, 802.11 a/b/g/n/ac
Wi-Fi client, Wi-Fi hotspot, WS Protected Set-Up, Wi-Fi Direct and Wi-Fi Display
Support up to 1080p at 30fps

BLUETOOTH®

BT2.1+EDR/3.0/4.1 LE/4.2 BLE/BT5.0
A2DP, ATT, BNEP, GAP, GATT, HFP, HID, HSP, PAN, SPP

GNSS

Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment
GPS/ GLObal NAvigation Satellite System (GLONASS)/BeiDou
A-GPS support

OPERATING SYSTEM

Android 10.0

MEMORY & STORAGE

64GB eMMC + 4GB LPDDR4X
High speed 4-bit SDIO interface supporting Class 10 UHS-1 100MB/s
High Speed MicroSDXC cards up to 256GB

TIME

Real Time Clock

STANDARD CONNECTIVITY

2 x RJ45 Gbps Ethernet ports
2 x USB Type A 2.0 ports
1 x DB9 RS-232 port
2 x DVI Console ports (Mirrored)
1 x DB15 Power and I/O port
2 x SMA connectors for MIMO-Wi-Fi/BT
2 x SMA connectors for MIMO-LTE
1 x SMA connector for GNSS

Output resolutions
720p 16:9
1024 x 768 4:3

DIGITAL I/O

The SCU3 incorporates an integrated power and I/Os connector interface, including Programmable GPIOs, Ignition Sense, and Power Feed. All the lines in the interface are automotive protected against waveforms defined in the ISO 7637-2 Standard and against electrostatic discharges according to IEC 61000-4-2 and ISO 10605 standards.

PRODUCT OPTIONS*

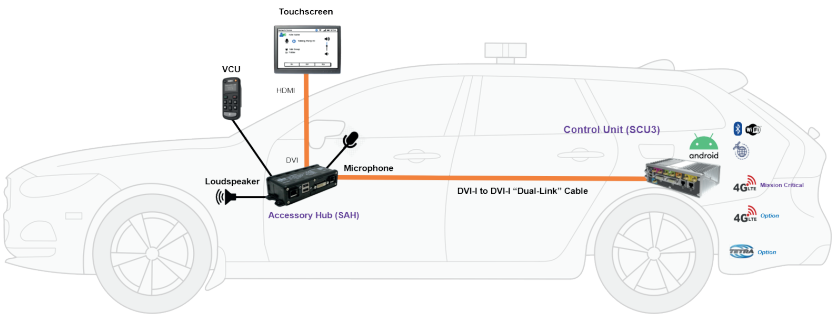
Second LTE Modem
Internal TETRA Modem

ENVIRONMENTAL PERFORMANCE

Dust and water protection to IEC 60529 IP54
ETS 300 019 -2-5 drop, vibration and humidity
Storage temperature -40°C to +85°C
Operating temperature -20°C to +60°C

Complies with specific test methods of MIL-STD-810G

TYPICAL INSTALLATION



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Going further in critical communications

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