SCU**3**
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 flexibility with options for a TETRA Module and future secondary LTE Module, the SCU3 meets customer needs for both wireless narrowband and broadband communications simultaneously.

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
TETRA: 380-473MHz

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
Class 3 for TETRA

RF SENSITIVITY

LTE-FDD B1, B2, B3, B4, B5, B7, B8, B20, B28: -102dBm
LTE-TDD B38, B39, B40, B41: -120dBm
WCDMA B1, B2, B4, B5, B8: -110dBm
DCS1800: -109dBm
PCS1900: -109dBm
EGSM900: -109dBm
GSM850: -109dBm

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 Module 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)
1 x 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

MEMORY AND 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

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[1]

PRODUCT OPTIONS

TETRA module providing Voice and Data services in DMO and TMO
Second LTE Module[2]

1- Planned for Q4 2023
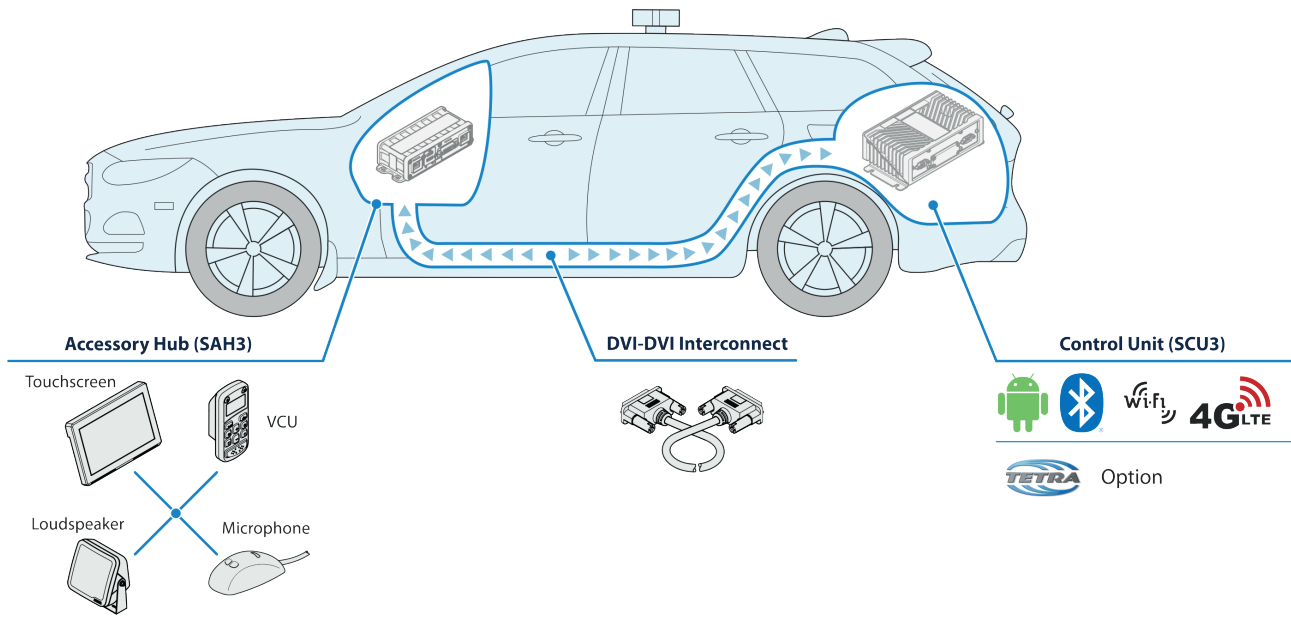2 - Speak to Product Management for more details

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TYPICAL INSTALLATION

Accessory Hub (SAH3)

Touchscreen

VCU

Loudspeaker

Microphone

DVI-DVI Interconnect

Control Unit (SCU3)

TETRA Option

DIMENSIONS

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

WEIGHT

Transceiver (LTE only variant) – 820g

POWER SUPPLY

Input voltage range: 6.0 - 36.0V DC
Nominal input voltage (12V vehicle):
13.8V DC
Nominal input voltage (24V vehicle):
27.6V DC
Operating current (max): 8.0A
Standby mode current: < 55mA
Off current: < 5mA

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
1 x SMA connector for TETRA

Output resolutions at 60fps

1280 x 720 16:9
1280 x 800 16:10
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.

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

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