

SCU3

TETRA AND 4G VEHICLE DEVICE



Designed to be a flexible solution to fit all types of vehicles, the SCU3 supports mission critical 4G 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 4G 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, 3L and 4 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
TETRA Static Receiver -113 dBm
TETRA Dynamic Receiver -107 dBm

SUPPORT FOR 4G STANDARDS

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)

TETRA

TMO and DMO Services
Individual and Group call
Half and Full Duplex call
Calling/Talking party identification
TETRA Emergency call
Status and SDS Message
Up to 350 Status Messages
LIP Position Report
Transmit Inhibit
Scanning On and Off
Air Interface Encryption
Temporary and Permanent Disable
Multiple Home Networks
Up to 30 configured networks
Preferred Location Area
Fixed Location Area

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 storage + 4GB RAM
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/GLONASS/BeiDou/Galileo²
A-GPS support

OPERATING SYSTEM

Android 12

PRODUCT OPTIONS

TETRA module providing Voice and Data
services in DMO and TMO
Second 4G/5G Module¹

¹- Speak to Product Management for more details
²- Support by the onboard module

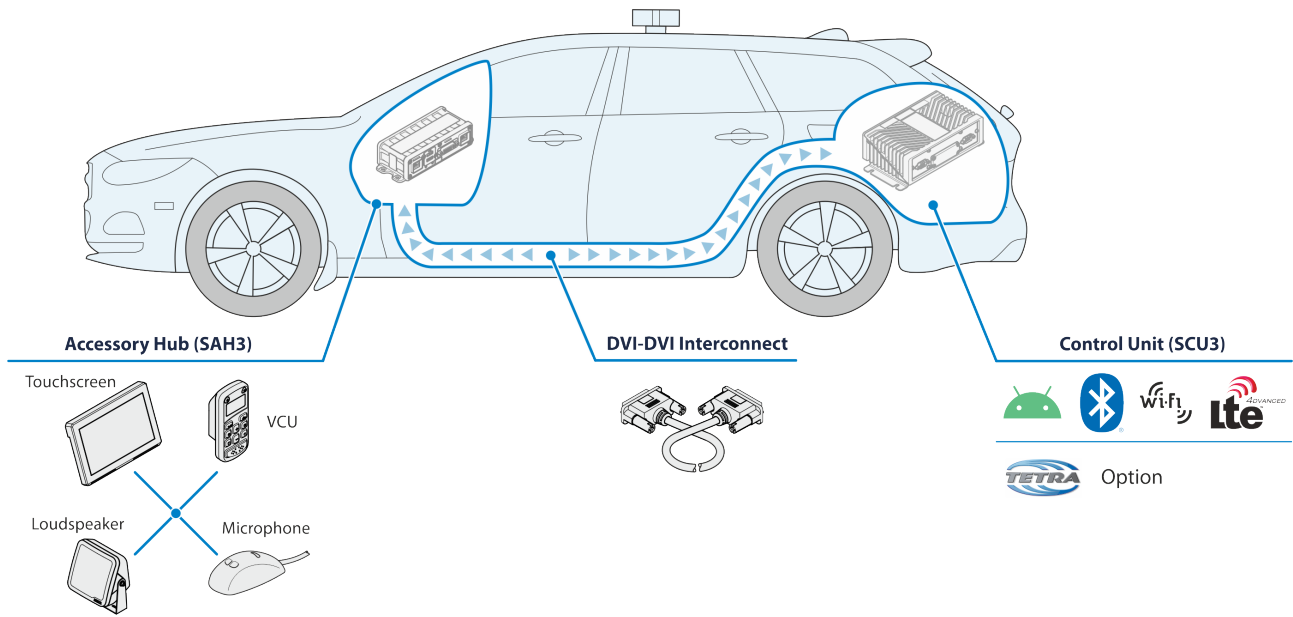


Going further in critical communications

*Please contact Sepura Product Management for more information.

Sepura's policy is to continually improve its products and services. The features and facilities described in this document were correct at publication, but are subject to change without notice.

TYPICAL INSTALLATION



DIMENSIONS

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

WEIGHT

Transceiver (LTE variant) – 820g

POWER SUPPLY

Input voltage range: 6.0 - 36.0V 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 display connectors (Mirrored)
1 x DB15 Power and I/O port
2 x SMA connectors for Wi-Fi/BT
2 x SMA connectors for LTE
1 x SMA connector for GNSS
1 x SMA connector for TETRA

Output resolutions at 30/60fps

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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