

SCU3 SERIES BROADBAND VEHICLE DEVICE



DIMENSIONS

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

WEIGHT

Transceiver (LTE only variant) – 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
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

SUPPORT FOR 3GPP E-UTRA

Release 12 including support for QoS
Class Identifiers (QCI) 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

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.

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

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

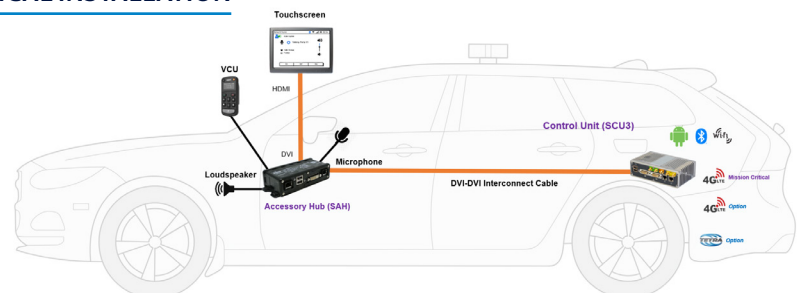
MEMORY AND STORAGE

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

TYPICAL INSTALLATION



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

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.

PRODUCT OPTIONS

TETRA module providing Voice and Data
services in DMO
Second LTE Module*

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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