

Rohde & Schwarz - 5G Backpack Configuration (Model: R&S/5G BACKPACK:A)

1 5G Backpack with 40 GHz Downconverter

1.1 ROMES Software Package

1.1.1 ROMES4

ROMES4 Drive Test / NPA Software Platform for Measurement & Replay, includes NMEA/UBLOX GPS Driver & Data Export & Generic AT Mobile Driver for GSM and WCDMA, includes NPA basic SW, two blue USB Hardlocks, requires PC Hardware approved for ROMES4 for MS Windows 10 (32/64 Bit) in English, Single User License.

1.1.2 ROMES4T1E

ROMES4 Driver: TSME supports TSME6, TSME and TMSA GSM/WCDMA, CDMA2000/1xEV-DO, WiMAX, LTE, TETRA, RF Power Scan, CW Scan. Single User License.

1.1.3 ROMES4T30D

ROMES4 Option: TSME30DC downconverter hardware support, Enables to control and operate the TSME30DC HW downconverter with ROMES4, TSME6 or TSMA6. (software license)

1.1.4 ROMES4QP

ROMES4 Option: QualiPoc single phone support Enables to use one (1) QualiPoc Android phone in QP mode in ROMES. Supported technologies: GSM, UMTS, LTE, LTE-CA, VoLTE. Supported Jobs: HTTP-Up-/Download, HTTP Capacity Test, FTP-Up-/Download, Ping and Speech Quality (if supported by phone), Single User License. (software license)

1.1.5 ROMES4QC

ROMES4 Option: Qualcomm Chipset support Enables to use up to six (6) selected devices with Qualcomm Chipset in ROMES. Supported technologies: GSM, UMTS, LTE (VoLTE and LTE-CA require additional licenses). Single User License. (software license)

1.1.6 ROMES4VO

ROMES4 Driver: VoLTE supports Qualcomm and Samsung LTE chipsets, requires ROMES4QC or ROMES4SAM, Mobiles require enabled Qualcomm Diagnostics Port or Samsung COM Port, supports SIP-message decoding, for operation of up to 6 approved Mobiles on approved PC Hardware. Single User License.

1.1.7 ROMES4CA

ROMES4 Driver: LTE Carrier Aggregation Downlink supports Qualcomm and Samsung LTE chipsets with DL-CA support, requires ROMES4QC or ROMES4SAM, Mobiles require enabled Qualcomm Diagnostics Port or Samsung COM Port, for operation of up to 8 approved Mobiles on approved PC Hardware. Single User License.

1.1.8 ROMES4NRQ

ROMES4 5G NR Option for 5G Qualcomm(X50) Chipset support in Classic Mode. Requires ROMES4QC Qualcomm Driver. Single User License. (software license)

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1.1.9 ROMES4UPC

ROMES4 SW Upgrade Service for 1 year for single licenses valid for 12 months limited for ROMES4 versions Features are supported according to the plan documented in the ROMES4 Release Notes Service features: #latest ROMES4 version #access to CTS database #up-to-date information on latest version/SP #shipment of ROMES installations DVD Order only possible if one of the following conditions is achieved: - Order of new ROMES4-licence - Extension existing ROMES4UPC - Order of ROMES4UPS at once

1.2 TP-5GDC

TP-5GDC, 5G Down Converter Unit 40GHz.

1.3 TSMA6

TSMA6 Autonomous Mobile Network Scanner 350 MHz - 6,0 GHz, 1 receiver with 20 MHz bandwidth, integrated GPS, Bluetooth/WiFi, 12V DC operation. Incl. GPS antenna, dipole antenna, BT/WiFi Antennas integrated, DC cable. Requires TSMA6-Kx options.

1.3.1 TSMA6

TSMA6 Autonomous Mobile Network Scanner 350 MHz - 6,0 GHz, 1 receiver with 20 MHz bandwidth, integrated GPS, Bluetooth/WiFi, 12V DC operation. Incl. GPS antenna, dipole antenna, BT/WiFi Antennas integrated, DC cable. Requires TSMA6-Kx options.

1.3.2 TSMA6-KAB

TSMA6 Scanner Option: Measurement all bands simultaneously (software license)

1.3.3 TSMA6-K50

TSMA6 Scanner Option: 5GNR Measurements on SS/PBCH block for sub 6 GHz and mmwave range (24 - 30 GHz, with downconverter) (software license)

1.3.4 TSMA6-BST

Mandatory option for standard TSMA6 configuration TSMA6 Standard Hardware Configuration 256 GB SSD 8GB DDR4 RAM

1.4 TSME6

TSME6 Ultracompact Drive Test Scanner 6GHz 350 MHz - 6 GHz, 1 receiver with 20 MHz bandwidth, integrated GPS, 12V DC operation, incl. GPS antenna, DC cable (cigarette lighter). Base Unit, requires additional TSME6-Kx options Incl.

1.4.1 TSME6

TSME6 Ultracompact Drive Test Scanner 6GHz 350 MHz - 6 GHz, 1 receiver with 20 MHz bandwidth, integrated GPS, 12V DC operation, incl. GPS antenna, DC cable (cigarette lighter). Base Unit, requires additional TSME6-Kx options.

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1.4.2 TSME6-K29

TSME6 Scanner Option: LTE-FDD and TD-LTE (software license)

1.4.3 TSME6-KAB

TSME6 Scanner Option: Measurement all bands simultaneously (software license)

1.5 Antennas & Accessories

1.5.1 TSME-Z10

Taoglas Ultrawideband Adhesive Antenna Dipole 698MHz - 960MHz 1710MHz - 2700MHz 5150MHz - 5850MHz GSA.8841.A.105111 Single Port, omnidirectional, 1m cable, SMA(m) connector for walk testing, portable, adhesive mount, 176mm * 59mm * 11.6mm

1.6 Freerider 4 Backpack package

1.6.1 FR4-CORE

Freerider 4 Core includes: - UPC4 - Battery Management and Power Distribution - FANs - LAN Switch - Internal case

1.6.2 FR4-BP

FR4-BP, Freerider 4 backpack for FR4-CORE with level 1&2

1.6.3 FR3-BA89WH

Freerider III Battery 89 Wh, 14.4V, 6.2Ah this Smart Battery includes a rechargeable Lithium Ion battery and a Battery Management Module. Protection is provided for over-charge, overdischarge and short circuit. For redundancy, passive safety devices have been integrated into the pack to protect against over-current and over-temperature, and secondary over-voltage has been implemented with a logic-fuse and controller

1.6.4 FR4-MK-Z10

FR4-MK-Z10, Freerider 4 antenna holder on the hip belt for TSME-Z10 antenna

1.6.5 FR4-MK-UE

Mounting Kit for additional UE in FR4 core

1.6.6 FR4-MK-HUB

FR4-MK-HUB, UPC4 - USB hub for use in Freerider 4

1.6.7 FR4-5G-ANT

FR4-5G-ANT, MNT Freerider 4 antenna for 5G. Article contains TSME-Z20 antenna, TSME-ZKC and antenna holder. PAR omnidirectional antenna QOM-SL-26-40-K-SG-R, 26 - 40 GHz, vertical polarization, K type connector, 2 to 4 dBi Gain, optimized for 5G backpack operation

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1.6.8 FR3-VPS

Freerider III Vehicle power supply, Input voltage 12-16VDC, power output 120W, including vehicle power connector and power cable to Freerider III

1.6.9 FR4-MK-A6

Mounting Kit for TSMA6 in Freerider 4 core

1.6.10 FR4-MK-TXD

FR4-MK-TXD, Freerider 4 Mounting kit for Texas Down Converter TP-5GDC. It contains the mechanical mounting plates for the TP-5GDC, power cable, RF patch cable and unlock tool for the mounting plate.

1.6.11 FR4-MK-E6

Mounting Kit for TSME6 in Freerider 4 core

1.6.12 FR4-SC-2FD

FR4-SC-2FD, Freerider 4 synchronization cable for two TSME6 for i.e. 2x2 MIMO operation