VIAVI Solutions

EVOIA DRIVE TEST
BPACK–EER19

Leading technology for troubleshooting and quality assessment
for MCX and private telecoms networks

Introducing the BPACK-EER19

The EVOIA Drive Test Backpack has been designed for
simplicity and ease of use in any location or environment.
To deploy, simply switch on, leave to run in unattended mode
and begin the journey to your destination.

Each backpack is packaged with 3 MNO Modems or 2 radio
modules and a scanner.

The trace modem/radio data is collected continuously
throughout the test execution.

Using a USB/Ethernet connection, you can upload the data
to a central server to conduct deep analysis. You can also
aggregate data coming from several campaigns from the
same or several backpacks, or any other drive test solutions.

Trace data from the radio module enables analysis of 2G, 3G,
4G, and 5G.

Key Benefits

- Portable backpack for pedestrian
  operation
- Attended, automatic operation of drive
  tests: monitors GSM, 3G, LTE/4G, 5G
  and TETRA
- Simple to install: documentation and
  support for third party installation and
  configuration
- Test and measure: public and private
  telecoms networks
- Test Telco: Coverage, Handovers,
  Failures, Access time
- Test MCX: ETSI KPIs 1,2, etc.
- Test Application: Throughput, latency,
  Round Trip Time, MOS, etc.
- Can be used inside buildings
- Real-time, continuous monitoring for
  up to 4 hours due to swappable battery
  option Kit
- Simple plug and play on-board
  installation
- Robust and reliable solution
- Low product lifecycle costs with a
  compelling Return on Investment (ROI)
- Helps to identify telecoms and network
  problems in minutes

BPACK–EER19

Professionally designed and developed to make the most of the available space and the technical capabilities required.

Test runs can be conducted as single events or as part of a regular schedule.

Key Features	BPACK–EER19
Product number	x-TBPAKNG03BU01 (x = R Rail, x = M MCX MNO)
Dimension	W:542 mm, H:402 mm, D:220 mm
Weight	18 Kg
Power	Internal Lithium Battery Pack 330 Wh and Optional Battery Pack
	24 VCC – 300 W (max) External AC/DC
Network testing supported	2G, 2G-Rail, 3G, 4G, 5G, TETRA
Testing for	Radio test, telecom quality of service including dropped calls, initiation time, and throughput; TETRA – conduct power measurements only, using a scanner
Data collection	Portable backpack
Data Transfer	Ethernet
Software operating system	Attended Mode: Software installed on an external PC or laptop
	Unattended Mode: Software installed on an internal URD
Operational mode	Attended or Unattended mode
	MNO: Up to 4 EMIB-XG (LTE,5G)
	MCX: Up to 3 EMIB-XG (LTE,5G) and 1 NTP Sync
	Rail: Up to 3 EMIB-R (GSM-R 8W) Up to 4 EMIB-R (GSM-R 2W)
	Scanner Option: Up to 1 Scanner
Positioning	Internal GPS
Post-processing capabilities	After post-processing, data can be exported in .csv format, to be re-used in 3rd party applications

BPACK–EER19 continued

Key Features	BPACK–EER19		
Devices supported	**VENDOR**	**TYPE**	**MODEM**
	Simcomm	Modem-4G-VoLTE	SIM7600
	Quectel	Modem-4G	EM12G
	Telit	Modem-4G	LM960A
	Telit	Modem-5G	FN980
	Funkwerk	Modem-GSMR	MT5/FPL R99
	Funkwerk	Modem-GSMR	MT5-AD/FPL R04
	Funkwerk	Modem-GSMR-DCS	MT6
	Triorail	Modem-GSMR	TTS-TRC-5RMe
	Triorail	Modem-GSMR	TTS-TRC-6RM
	Triorail	Modem-GSMR	TTS-TRM-5
	Triorail	Modem-GSMR	TTS-TRM-6
Solution	Certified and customized solutions (software and hardware) available		
Antenna	RF Patch available on the side of the box: SMA Female RF connectors		
Battery	Lithium Battery Bicker PN: BP-LFP-13250S Certified UN 38.3		
Stand-alone receiver availability	EVOIA Drive Test supports Rohde & Schwartz scanner model: TSME6 with each appropriate License-KEY		

BPACK–EER19 continued

Included Components

Catalog Number	Description
x-TBPAKNG03BU01	BPACK-EER19
x-HTB19EESB01	HTB EE-R19 Short subrack
C-ACC-BATLIT01	Internal Lithium Battery Pack
C-ACC-TMEE0103	Trackmotion - EE -GPS Connector type SMA
C-ACC-BP-PSU300	Power Supplier Unit 300 W with Lemo connector
C-HWC-A210210G	GPS Antenna
C-ACC-ETH150	Ethernet Cable

Optional Accessories

Catalog Number	Description
x-MSP-LSTD1	MSP Main System Processor – Standard Laptop
x-MSP-LRU1G	MSP Main System Processor - Rugged Laptop
x-S-TSME6-CAL	Rohde & SwatzScannerTSME6 with Calibration Document
x-URD-SSTD12	Urd Scanner ort MSP if configured in Unattended Mode
R-HWC-A220313	PCTEL - MLPV 800 Antenna for Scanner
R-HWC-A220314	PCTEL - BMLPV800HD Magnetic Mount
C-OPT-BP-STAN01	Option Telescopic 2 stands for 2 Antenna
C-OPT-BP-STAN02	Option Telescopic 2 stands for 4 Antenna
C-OPT-GTW4101	Option Modem (single modem) for Unattended Management

Note:
x=R Rail Configuration
x=M MCX-MNO Configuration

Configuration MNO 4G-5G

Catalog Number	Description
M-CEMIBXG1105103	Channel 4G-5G EMIB-XG (up to 4)
M-ACC-EMIBXG-SL	Sim Extender for Channel EMIB-XG (one for each EMIB-XG)

Option for configuration MNO 4G-5G Modem

Catalog Number	Description
TLLM960A18	Test Modem Telit LM960A18 4G – CAT18 MIMO 4x4
TLFN980	Test Modem Telit FN980 5G
SCSIM7600	Test Modem SIMCOM SIM7600 – 4G VoLTE
QTEM12G	Test Modem Quectel EM12G

Configuration MCX

Catalog Number	Description
M-CEMIBXG1105103	Channel 4G-5G EMIB-XG (up to 3)
M-ACC-EMIBXG-SL	Sim Extender for Channel EMIB-XG (one for each EMIB-XG)
M-OPT-SY_NTP01	NTP Time Sync

Option for configuration MCX Modem

Catalog Number	Description
QTEM12G	Test Modem Quectel EM12G

Configuration GSM-R

Catalog Number	Description
R-CEMIBR2200104	GSM-R Channel for 8W Cab Radio (up to 2)
R-CEMIBR1100104	GSM-R Channel for 2W Radio - SMA front connector (up to 4)
R-ACC-EMIBR-SL	Sim Extender for Channel EMIB-R (one for each EMIB-XG)
R-ACC-TRC5-SL	Sim Extender for Triorail TTS-TRC5 or TTS-TRC6 (one for each EMIB-XG)
R-ACC-MT5-SL	Sim Extender for Funkwerk MT5 (ET/EADT) (one for each EMIB-XG)

Option configuration GSM-R modem

Catalog Number	Description
R-TR-TTSTRM5C	Triorail TTS-TRM5 2W
R-TR-TTSTRM6C	Triorail TTS-TRM6 2W
R-FK-MT2-SI10T	Funkwerk MT2 8W
R-FK-MT5ET	Funkwerk MT5 8W – REL99
R-FK-MT5EADT	Funkwerk MT5 8W – REL04
R-TRTTSTRC5RME	Triorail TTS-TRC5 RMe – 8W
R-TRTTSTRC6RM	Triorail TTS-TRC6 RM – 8W

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