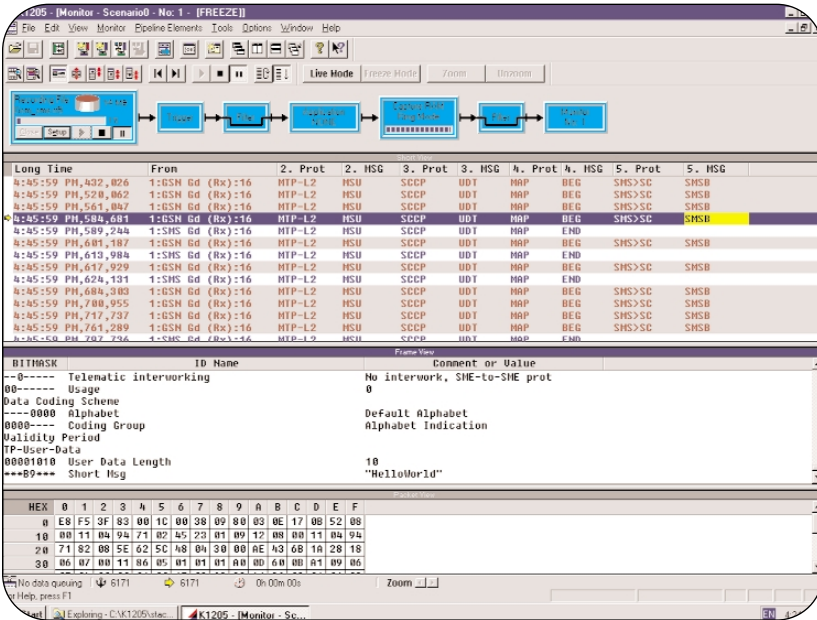


K1297/K1205 Series Protocol Tester

► GSM/PCS Software



► Features & Benefits

GSM Monitoring,
Simulation and Emulation

SMS Monitoring
and Simulation

WAP Monitoring

Emulation of
Network Elements

► Applications

Testing of GSM Base
Station Subsystem (BSS)

Testing of GSM Network
Switching Subsystem (NSS)

The Global System for Mobile Communication (GSM) is related to the 2nd Generation (2G) of Mobile Networks. From its rollout at the beginning of the 90s, GSM has become a worldwide accepted standard for digital mobile communication and is preferred for speech and narrowband tele services (i.e. SMS or WAP).

Tektronix offers the following software packages for the mobile network GSM for K1297 and K1205 Protocol Testers. With the software, functions of the GSM network elements Base Station Subsystem (BSS) and Network Switching Subsystem (NSS) and their interaction can be tested:

- GSM Monitoring
- GSM Monitoring/Simulation/Emulation
- SMS Monitoring
- SMS Monitoring/Simulation
- WAP Monitoring
- Emulation of Network Elements MSC and BSS
- Emulation of Network Element SCP
- A_{bis} Post-processing Software Tool

Tektronix now offers a complete range of monitoring applications for GSM protocols for the Subnetworks BSS and NSS on the K1205 and K1297-G20 and in addition for K1297-G20 the capability to simulate GSM protocols by using MBS to emulate important parts of network elements such as MSC, BSS, HLR, VLR and SCP. 2G protocol packages can be combined with all transport protocol packages (SS#7, IP, ATM).

Prerequisite for GSM software packages is the related transport protocol SCCP (7PK12xx-xTCxx). Please refer to Transport, ISUP, Intelligent Network product information at <http://www.tektronix.com/mobile>.

The transport SCCP protocol packages 7PK1221-7TCxx offer the additional feature TCAP Application Database. Database access of TCAP based protocols (i.e. MAP, CAP) with support of the programming tool "Message Sequence Chart (MSC)" can be realized.

K1297/K1205 Series Protocol Tester

► GSM/PCS Software

► Ordering Information

Please refer to K1205 Base Software, Protocol Tester K1297-G20 Base Software and K1297/K1205 Protocol Tester Hardware Product Summaries for further information.

Please note that besides the following ordering numbers (for complete version) upgrades and offline software are available.

GSM Protocol Packages for K1205

7PK1205-6MG11 – K1205 Protocol SW Monitoring GSM/PCS Package; MAP/TCAP, BSSMAP, DTAP, SUPS, CAMEL (CAP); Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TC11.

7PK1205-6MS11 – K1205 Protocol SW Monitoring 2G and 2.5G Mobile SMS Package; SMRP; SMTP u/d; SMCP (GPRS SMS); SMRP (GPRS SMS RP); SMS for CDMA (IS637); Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6MG11, -6MC11 or -6GB11.

7PK1205-6ML11 – K1205 Protocol SW Monitoring Mobile Package; Location Services protocols (BSSLAP, BSSMAP-LE, SMLCPP, RRLP, LLP); Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6MB11.

7PK1205-6MU11 – K1205 Protocol SW Monitoring TD-SCDMA Package; Contains RSL, O&M, A_{sub}; TSM 04.08, TSM 04.60, PCU-FRS3006; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TP11.

7PK1205-6MW11 – K1205 Protocol SW Monitoring Package; WAP; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6MG or -6MM or -6MS.

Manufacturer Specific A_{bis} Packages for K1205

7KK1205-6EA11 – K1205 SW Monitoring GSM A_{bis}; MOTOROLA specific protocols incl. A_{bis} O&M for Europe and USA; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6EB11 – K1205 SW Monitoring GSM A_{bis}; NOKIA specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6EC11 – K1205 SW Monitoring GSM A_{bis}; LUCENT specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6ED11 – K1205 SW Monitoring GSM A_{bis}; ALCATEL specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6EE11 – K1205 SW Monitoring GSM A_{bis}; ERICSSON specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6EF11 – K1205 SW Monitoring GSM A_{bis}; MCI specific protocols incl. ISUP; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6EG11 – K1205 SW Monitoring GSM A_{bis}; SIEMENS specific protocols incl. A_{bis} O&M, RSL, ASUB; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

7KK1205-6EH11 – K1205 SW Monitoring GSM A_{bis}; NORTEL specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1205-6ABxx) and 7PK1205-6TN11.

GSM Monitoring Protocol Packages for K1297-G20

7PK1221-6MG11 – K1297-G20 Protocol SW Monitoring GSM/PCS Package; incl. all 2G MAP/TCAP variants, BSSMAP, DTAP, SUPS, CAMEL variants (CAP); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TC11.

7PK1221-6MS11 – K1297-G20 Protocol SW Monitoring Mobile SMS Package; incl. SMRP; SMTP u/d; SMCP (GPRS SMS); SMRP (GPRS SMS RP); SMS for CDMA (IS637); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7MG11 or -6/7MC11 or -6/7MM11 or -6/7GB11.

7PK1221-6ML11 – K1297-G20 Protocol SW Monitoring Mobile Location Services Package; incl. Location Services protocols (BSSLAP, BSSMAP-LE, SMLCPP, RRLP, LLP); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7MB11.

7PK1221-6MU11 – K1297-G20 Protocol SW Monitoring TD-SCDMA Package; contains: RSL, O&M, A_{sub}; TSM 04.08, TSM 04.60, PCU-FRS3006; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TP11.

7PK1221-6MW11 – K1297-G20 Protocol SW Monitoring WAP Package; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7MG11 or -6/7MM11 or -6/7MS11.

GSM Monitoring/Simulation/Emulation Protocol Packages for K1297-G20

7PK1221-7MG11 – K1297-G20 Protocol SW Monitoring/Simulation/Emulation GSM/PCS Package; incl. MAP/TCAP, BSSMAP, DTAP, SUPS, CAMEL (CAP); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-7TC11.

7PK1221-7MS11 – K1297-G20 Protocol SW Monitoring/Simulation/Emulation Mobile SMS Package; incl. SMRP; SMTP u/d; SMCP (GPRS SMS); SMRP (GPRS SMS RP); SMS for CDMA (IS637); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-7MG11 or -7MC11 or -7MM11 or -7GB11.

7PK1221-7ML11 – K1297-G20 Protocol SW Monitoring/Simulation/Emulation Mobile Location Services Package; incl. Location Services protocols (BSSLAP, BSSLAP-LE); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-7MG11.

Network Element Emulations for K1297-G20

7KK1223-8MG11 – K1297-G20 Emulation entity Network Element 2G Mobile; MSC/BSS (GPRS+GSM+CDMA); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-7MG11.

7KK1223-8GH11 – K1297-G20 Emulation entity Network Element Mobile; HLR/VLR (GSM+GPRS); Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-7MC11 or -7MG11 or -7MM11 or -7GS.

7KK1223-8JS11 – K1297-G20 Emulation entity Network Element Core&Intelligent Network (SCP); for CAMEL Ph1 and ETSI Core INAP CS-1; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-7CJ11 or -7MG11.

Manufacturer Specific A_{bis} Packages for K1297-G20

7KK1225-6MA11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; ALCATEL specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

7KK1225-6ME11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; ERICSSON specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

7KK1225-6ML11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; LUCENT specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

7KK1225-6MM11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; MOTOROLA specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

7KK1225-6MN11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; NOKIA specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

7KK1225-6MT11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; NORTEL specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

7KK1225-6MS11 – K1297-G20 Manuf. Specif. Protocols Monitoring GSM A_{bis}; SIEMENS specific protocols incl. A_{bis} O&M; Prerequisite: Current System Version (7KK1220-OSCxx) and 7PK1221-6/7TN11.

GSM Bundles

7KK1205-6SE11 – K1205 SW Monitoring GSM; Bundle Containing: 7PK1205-6TN, -6TC, -6CS, -6MB, -6MG, -6ML, -6MP and -6MS; Prerequisite: Current System Version (7KK1205-6ABxx).

7KK1205-6SF11 – K1205 SW Monitoring CDMA; Bundle Containing: 7PK1205-6TN, -6TC, -6CS, -6MC and 6MS; Prerequisite: Current System Version (7KK1205-6ABxx).

7KK1205-6SQ11 – K1205 SW Monitoring GSM and GPRS; Containing: 7PK1205-6TC, -6TN, -6TP, -6CS, -6MB, -6MG, -6ML, -6MM, -6MP, -6MS, -6GB, -6GN, -6GS and -6JJ; Prerequisite: Current System Version (7KK1205-6ABxx).

7KK1221-6SE11 – K1297-G20 SW Bundle Monitoring GSM; Containing: 7PK1221-6TN, -6TC, -6CS, -6MB, -6MG, -6ML, -6MP and -6MS; Prerequisite: Current System Version (7KK1220-OSCxx).

7KK1221-6SF11 – K1297-G20 SW Bundle Monitoring CDMA; Containing: 7PK1221-6TN, -6TC, -6CS, -6MC and -6MS; Prerequisite: Current System Version (7KK1220-OSCxx).

7KK1221-6SQ11 – K1297-G20 SW Bundle Monitoring GSM and GPRS; Containing: 7PK1221-6TC, -6TN, -6TP, -6CS, -6MB, -6MG, -6ML, -6MM, -6MP, -6MS, -6GB, -6GN, -6GS and -6JJ; Prerequisite: Current System Version (7KK1220-OSCxx).

K1297/K1205 Series Protocol Tester

▶ GSM/PCS Software

Contact Tektronix:

ASEAN Countries & Pakistan (65) 6356 3900

Australia & New Zealand (65) 6356 3900

Austria +43 2236 8092 262

Belgium +32 (2) 715 89 70

Brazil & South America 55 (11) 3741-8360

Canada 1 (800) 661-5625

Central Europe & Greece +43 2236 8092 301

Denmark +45 44 850 700

Finland +358 (9) 4783 400

France & North Africa +33 (0) 1 69 86 80 34

Germany +49 (221) 94 77 400

Hong Kong (852) 2585-6688

India (91) 80-2275577

Italy +39 (02) 25086 1

Japan (Sony/Tektronix Corporation) 81 (3) 3448-3111

Mexico, Central America & Caribbean 52 (55) 56666-333

The Netherlands +31 (0) 23 569 5555

Norway +47 22 07 07 00

People's Republic of China 86 (10) 6235 1230

Poland +48 (0) 22 521 53 40

Republic of Korea 82 (2) 528-5299

Russia, CIS & The Baltics +358 (9) 4783 400

South Africa +27 11 254 8360

Spain +34 (91) 372 6055

Sweden +46 8 477 6503/4

Taiwan 886 (2) 2722-9622

United Kingdom & Eire +44 (0) 1344 392400

USA 1 (800) 426-2200

For other areas contact Tektronix, Inc. at: 1 (503) 627-7111

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