Software SME-K2

Generating communication signals with Signal Generator SME

Brief description

As regards the development and production of base stations, cellular phones and chip sets Software SME-K2 facilitates the setting of the universal Signal Generator SME to the different signals required and greatly enhances its usability.

Main fatures

- Easy generation of TDMA bursts with graphical display
- Predefined burst structures according to communication standards GSM900/1800/1900, IS-136 (NADC), DECT, PDC

- Automatic setting of signal generator (frequency, level, modulation, burst control)
- Synchronization words according to communication standards or user definition
- PRBS data sequences (2^9-1 or $2^{15}-1$), continued in same time slot from frame to frame
- User-defined modulation data
- Signal generator control via IEC/IEEE bus or RS232-C interface

Modulation data selection of all bursts

- All 0, all 1
- PRBS 2^9-1, PRBS $2^{15}-1$ in data section of burst
- Bit pattern (length of pattern up to max. number of bits in timeslot)
- File input

Specifications

Available bursts/physical channels (according to system specifications):
GSM900/1800/1900
Normal (TSC0 to TSC7, user-defined), frequency correction, synchronization, dummy, access burst
IS-136 (NADC)
Downlink (synchronization words S1 to S6), uplink (synchronization words S1 to S6), shortened uplink, all eight combinations of full-rate and half-rate channels possible
DECT
Short PCH R00, basic PCH R32, low-rate PCH R0j (L=0/L=1), high-capacity PCH R80, optionally with Z field
PDC
Downlink and uplink: traffic PCH, control PCH, synchronization burst, all eight combinations of full-rate and half-rate channels possible, slot at head of superframe
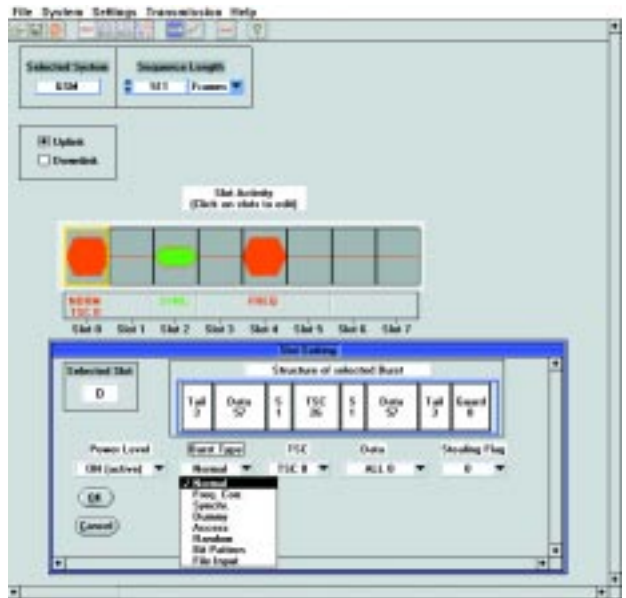**Additional**
Random (PRBS 2^9-1 or PRBS $2^{15}-1$), file input, bit pattern

Hardware requirements

Controller	PSP/PSA controller family or AT-compatible PC to industry standard (CPU 386 + mathematical coprocessor or better)
Operating system	Windows 3.1x or Windows 95
Main memory	min. 8 Mbyte RAM
RS232-C interface	null modem cable (1050.0346.00)
IEC/IEEE-bus card (IEEE 488.2)	R&S PS-B4 (1006.6207.04) or National Instruments AT-GPIB card, Windows driver installed
Mouse	R&S PS-B11, serial Microsoft mouse or compatibles

Supported generators

Signal Generator SME02	5 kHz to 1.5 GHz	1038.6002.02
SME03	5 kHz to 3 GHz	1038.6002.03
SME06	5 kHz to 6 GHz	1038.6002.06
with option (mandatory)		
DM Coder for SME02/03/06	SME-B11	1036.8720.02
Signal Generator SME03E (DM coder included)	5 kHz to 2.2 GHz	1038.6002.13

Supported options

8-Mbyte Memory Extension	SME-B12	1039.4090.02
Pulse Modulator for SME02	SM-B3	1036.6340.02
SME03/03E	SM-B8	1036.6805.02
SME06	SM-B9	1036.5100.02
Pulse Generator for SME	SM-B4	1036.6340.02

Ordering information

Software	SME-K2	1104.7736.02