

MAIN FEATURES

- ❖ Programmable delay
- ❖ Programmable attenuation
- ❖ Digital signal processing
- ❖ Generation of fake radar targets
- ❖ Simulation of target movement
- ❖ Small size
- ❖ Low weight

DESCRIPTION



The BUNL10 is a digital radio frequency memory intended for use in radar testing where high target distance should be simulated. Most important parameters, such as target distance, sample number, pulse trigger threshold and signal attenuation are digitally programmable through the graphical user interface. The BUNL10 can be ordered optionally with L band omni-directional antenna and LiPo battery.

SPECIFICATIONS

RF PARAMETERS	
Frequency range	1 – 3.6 GHz
Bandwidth	30 MHz
Maximal RF input power	0 dBm
Maximal pulse repetition rate	20 kHz
RF attenuation	60..90 dB
External trigger	3.3V and min 400 ns impulse
SIMULATED TARGET PARAMETERS	
Distance range	10 – 400 kilometers
Distance resolution	approx. 5.5 meter
Distance accuracy	better than 1 %
Moving target simulation	Yes (without doppler simulation)
Target movement range	10 – 300 km
Target movement speed	5 – 4000 m/s
Sampling time in Simple Mode (pulse length)	10..900 us
Sampling time in Multi Mode (pulse length)	10..100 us
Number of simulated targets	11
Repeated groups of targets	2
MECHANICAL PARAMETERS	
Data interface	Ethernet
RF connectors	SMA FEMALE
Data and power supply connector	DSUB-15
Supply voltage	+12 V DC
Operating temperature range	-20...+55 °C
Mechanical size	approx. 150 x 100 x 20 mm
Weight	approx. 400 g

Specifications are subject to change without notice.

OUTLINE DRAWING (mm)

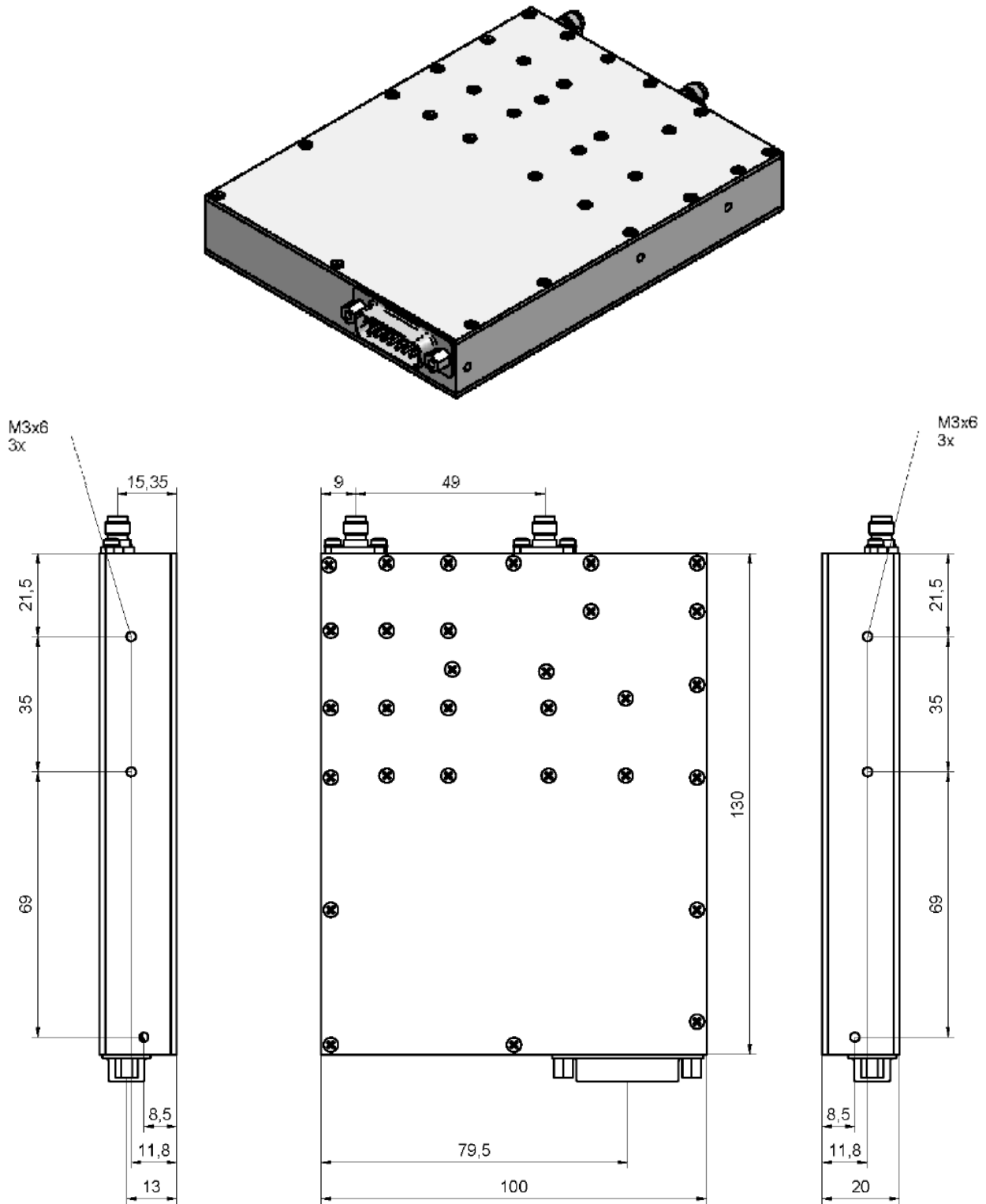


Figure 2. Outline drawing



BUNL10 Digital Radio Frequency Memory

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BUNL10K10769	Digital Radio Frequency Memory

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BUNL10-LM-K10769	V04	2022-08-10