

DAFTAR SINGKATAN

16-QAM	: 16-Quadrature Amplitude Modulation
3D	: 3-Dimensi
5G NR	: 5th Generation New Radio
AR	: Axial ratio
BER	: Bit Error Rate
dB	: Decibel
dB _i	: Decibel-isotropic
dB _m	: Decibel-milliwatt
EBG	: Electromagnetic Band Gap
ECC	: Electronic Communications Committee
ETSI	: European Telecommunications Standards Institute
FRMCS	: Future Railway Mobile Communication System
FSL	: Free Space Loss
GHz	: Gigahertz
GSM	: Global System for Mobile Communications
GSM-R	: Global System for Mobile Communications-Railway
HDL	: Hardware Description Language
HPA	: High Power Amplifier
Hz	: Hertz
IP	: Internet Protocol
KHz	: Kilohertz
LTE	: Long Term Evolution
m	: Meter
MATLAB	: MATrix LABoratory

MHz	: Megahertz
MIMO	: Multiple Input Multiple Output
mm	: Millimeter
PC	: Personal Computer
QPSK	: Quadrature Phase Shift Keying
RAM	: Random Access Memory
RF	: Radio Frequency
RX	: Receiver
SDR	: Software Defined Radio
SMA	: Sub-Miniature version A
TX	: Transmitter
UHD	: USRP Hardware Driver
UIC	: International Union of Railways
URS	: User Requirements Specifications
USB	: Universal Serial Bus
USRP	: Universal Software Radio Peripheral
VNA	: Vector Network Analyzer
VSWR	: Voltage Standing Wave Ratio