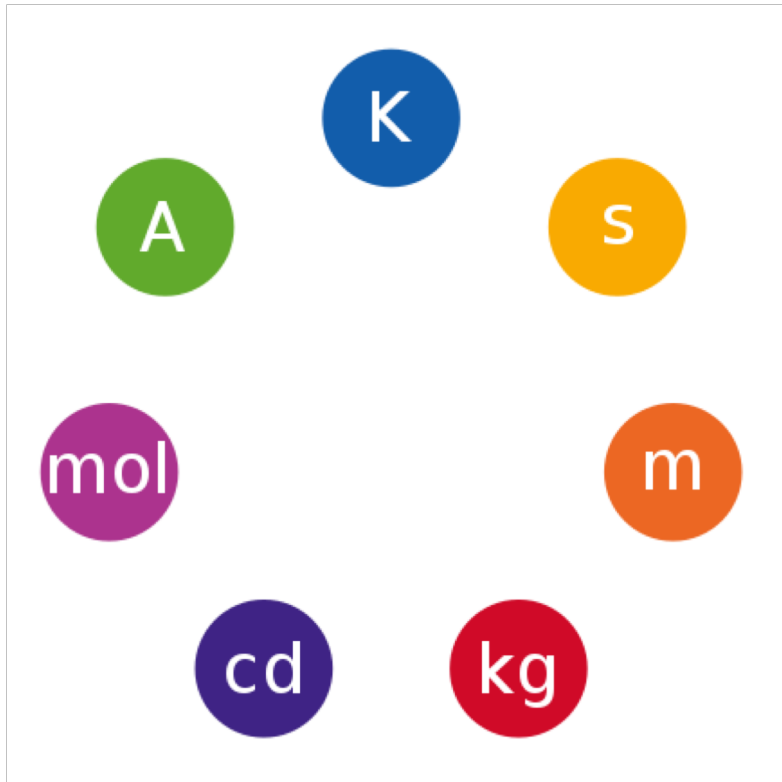


# EE 49

# Electronics for IoT

Electronics – Basic Concepts

# International System of Units



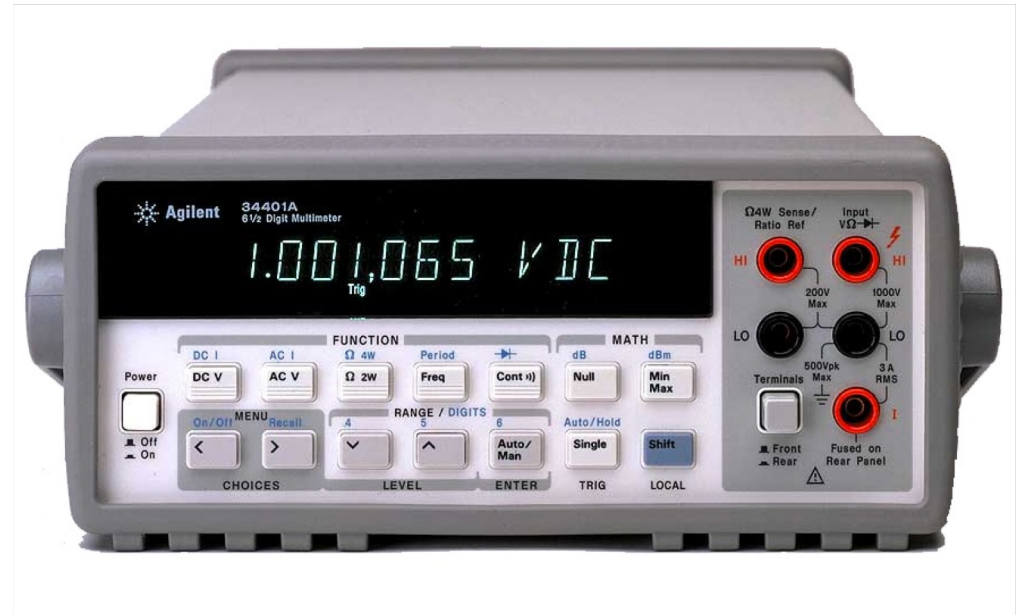
Symbol	Name	Quantity
A	ampere	electric current
K	kelvin	temperature
s	second	time
m	metre	length
kg	kilogram	mass
cd	candela	luminous intensity
mol	mole	amount of substance

[https://en.wikipedia.org/wiki/International\\_System\\_of\\_Units](https://en.wikipedia.org/wiki/International_System_of_Units)

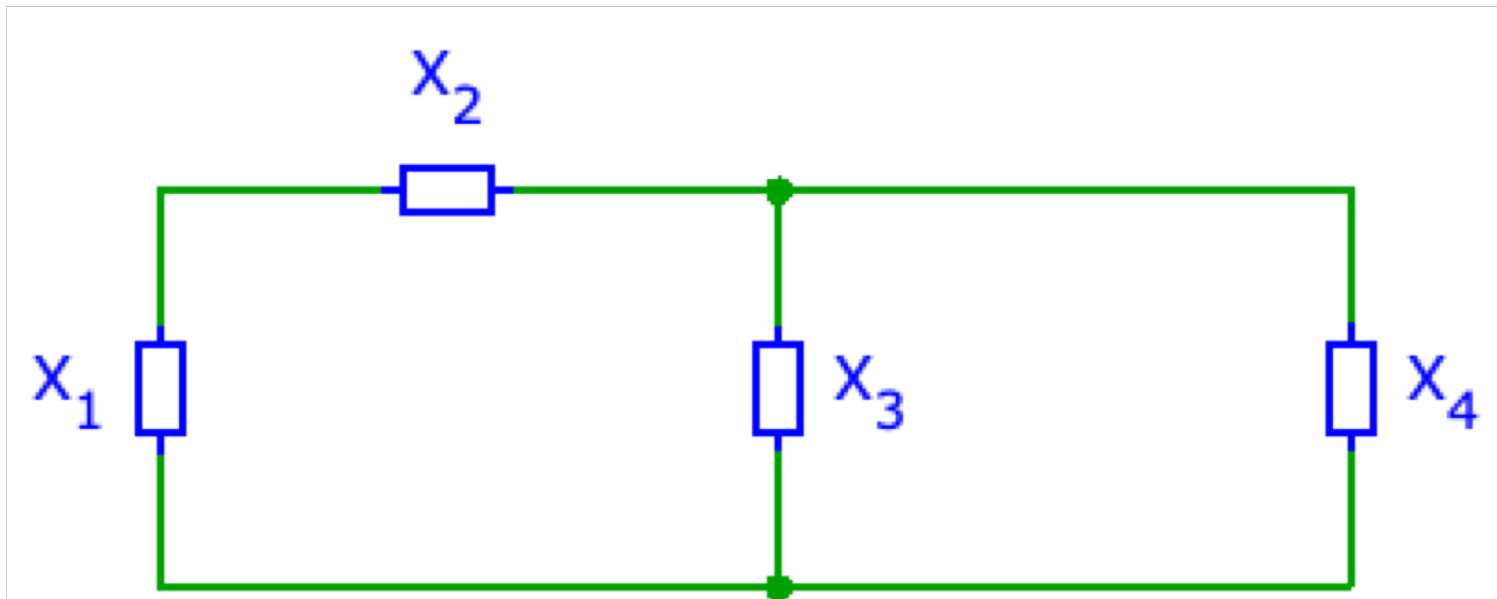
# SI Prefixes

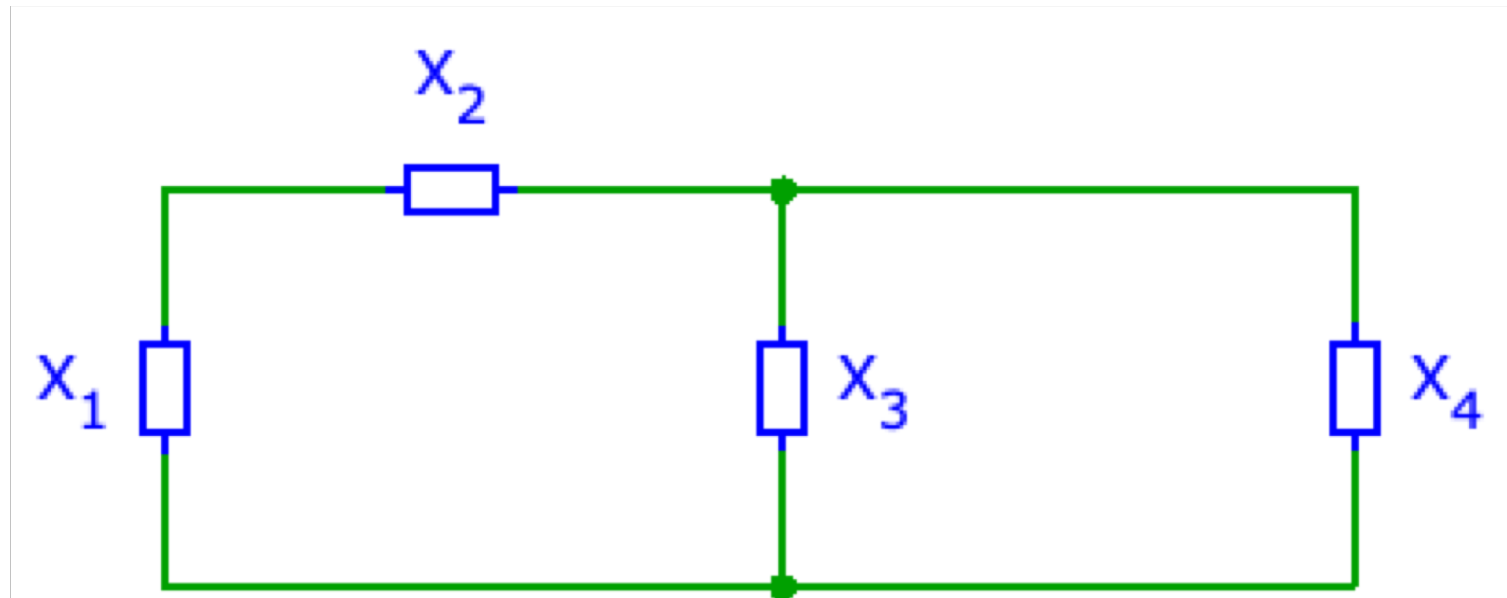
Prefix		Base 1000	Base 10	Decimal
Name	Symbol			
yotta	Y	1000 <sup>8</sup>	10 <sup>24</sup>	1 000 000 000 000 000 000 000 000
zetta	Z	1000 <sup>7</sup>	10 <sup>21</sup>	1 000 000 000 000 000 000 000
exa	E	1000 <sup>6</sup>	10 <sup>18</sup>	1 000 000 000 000 000 000
peta	P	1000 <sup>5</sup>	10 <sup>15</sup>	1 000 000 000 000 000
tera	T	1000 <sup>4</sup>	10 <sup>12</sup>	1 000 000 000 000
giga	G	1000 <sup>3</sup>	10 <sup>9</sup>	1 000 000 000
mega	M	1000 <sup>2</sup>	10 <sup>6</sup>	1 000 000
kilo	k	1000 <sup>1</sup>	10 <sup>3</sup>	1 000
hecto	h	1000 <sup>2/3</sup>	10 <sup>2</sup>	100
deca	da	1000 <sup>1/3</sup>	10 <sup>1</sup>	10
		1000 <sup>0</sup>	10 <sup>0</sup>	1
deci	d	1000 <sup>-1/3</sup>	10 <sup>-1</sup>	0.1
centi	c	1000 <sup>-2/3</sup>	10 <sup>-2</sup>	0.01
milli	m	1000 <sup>-1</sup>	10 <sup>-3</sup>	0.001
micro	μ	1000 <sup>-2</sup>	10 <sup>-6</sup>	0.000 001
nano	n	1000 <sup>-3</sup>	10 <sup>-9</sup>	0.000 000 001
pico	p	1000 <sup>-4</sup>	10 <sup>-12</sup>	0.000 000 000 001
femto	f	1000 <sup>-5</sup>	10 <sup>-15</sup>	0.000 000 000 000 001
atto	a	1000 <sup>-6</sup>	10 <sup>-18</sup>	0.000 000 000 000 000 001
zepto	z	1000 <sup>-7</sup>	10 <sup>-21</sup>	0.000 000 000 000 000 000 001
yocto	y	1000 <sup>-8</sup>	10 <sup>-24</sup>	0.000 000 000 000 000 000 000 001

# Digital Multi Meter (DMM)



# Circuit Diagram





# Reference (Ground = 0V)

