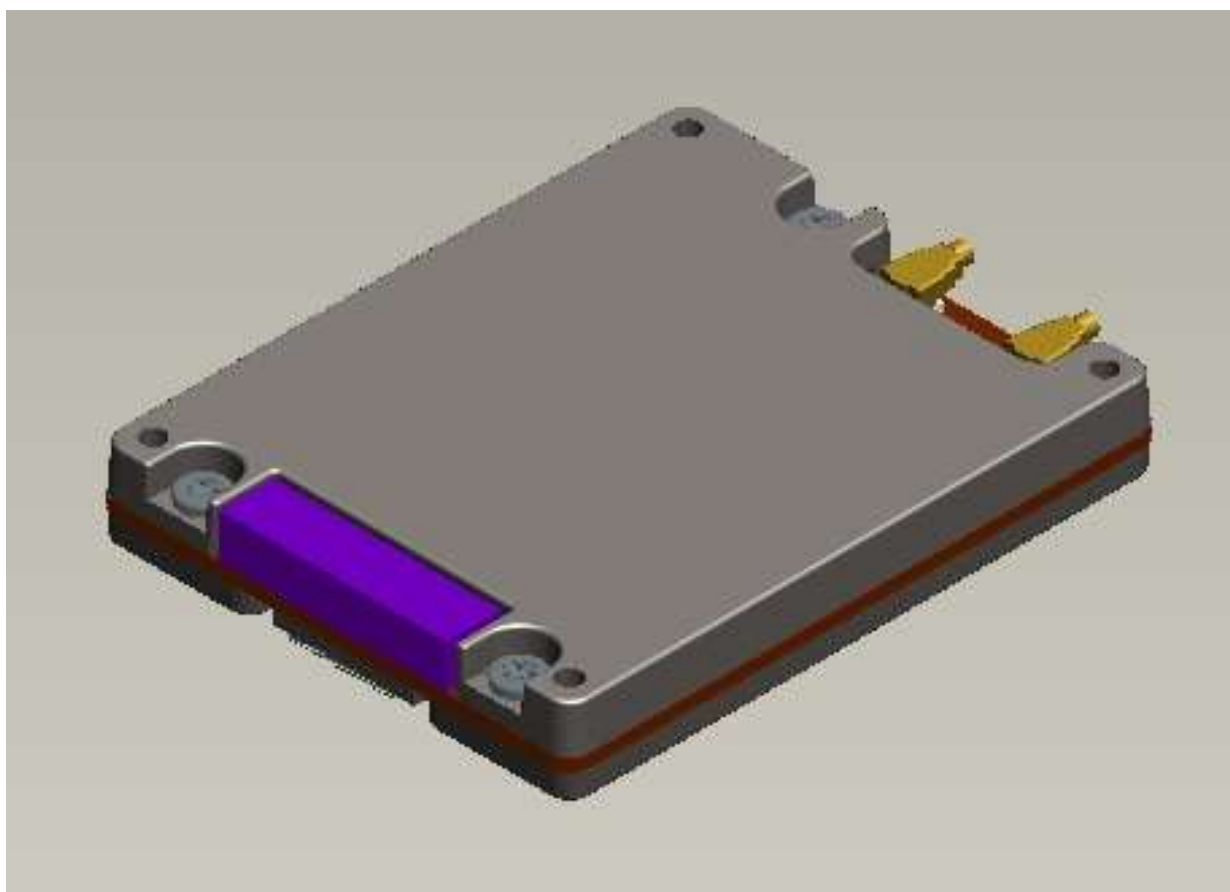


	KCTM-2000 RFID Module Guide	Date	2019-04-30
		Rev	03
		Page	1

KCTM-2000 RFID Module



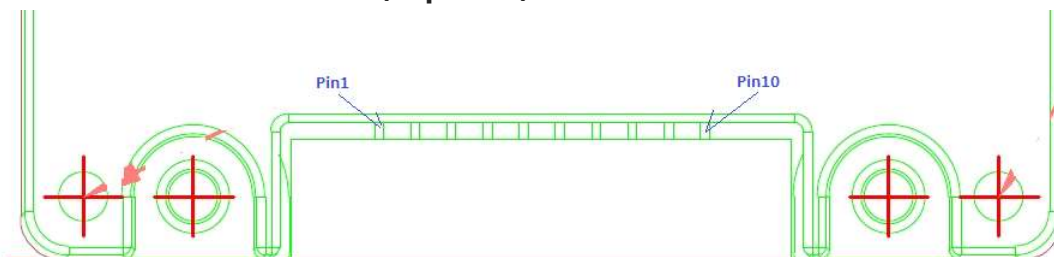
	KCTM-2000 RFID Module Guide	Date	2019-04-30
		Rev	03
		Page	2

▷ Reader Performance

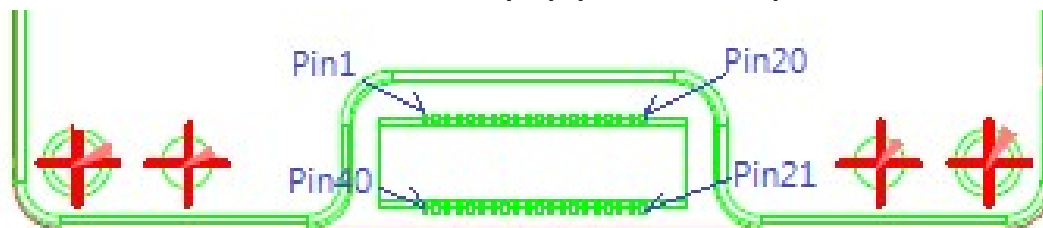
ITEM	SPECIFICATION
Model Name	KCTM-2000
Protocol	EPC global UHF Class1 Gen2 V2 / ISO 18000-63
Modulation	PR-ASK
Frequency	865MHz~868MHZ / 902MHz~928MHz
RF Output Port	2 Port(Default ANT0)
Max Tx Power	= < 30dBm (+0.5dB)
Power Control	5dBm to 30dBm (1dB step)
Operating Temperature	-10°C to +50°C
Communication	UART, Baud rate(115200bps)

▷ I/O Description

- YENOHO 12505WR-10 (Top Side)



- HIROSE Header DF40C-40P-0.4V(51) (Bottom Side)



** Receptacle : DF40C-(2.0)-40DS-0.4V(51)

	KCTM-2000 RFID Module Guide	Date	2019-04-30
		Rev	03
		Page	3

12505WR-10 Pin No.	DF40C-40P Pin No.	Name	I/O	Description
1,2,3	31 ~ 40	BAT	Power	+3.8~4.8V input
4,5,6	21 ~29	GND	Power	Ground
7	18	TXD	Out	UART TX Data
8	19	RXD	In	UART RX Data
9	20	ENABLE	In	Module Power Enable (Active "High")
10	7	FW_DN	In	Module Firmware Download (Active "Low")

**Pin10(FW_DN) : After setting to Low, if you "Reset or Power On", it enters the download state.

▷ Electrical Characteristics

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage	VCC	3.8	4.0	4.8	V
TX Max. Current	ICC	1.3 (Output Power : 30dBm, Voltage : 4.0V)			A
Stand-By Current	ICC	32			mA
TXD (→HOST)	VOH	2.0		3.3	V
	VOL	0		0.4	V
RXD (←HOST)	VIH	2.0		3.3	V
	VIL	0		0.4	V
GPIO	VIH	2.0		3.3	V
	VIL	0		0.4	V
ENABLE(Active "H")	VIH	1.2		VCC	V
	VIL	0		0.4	V

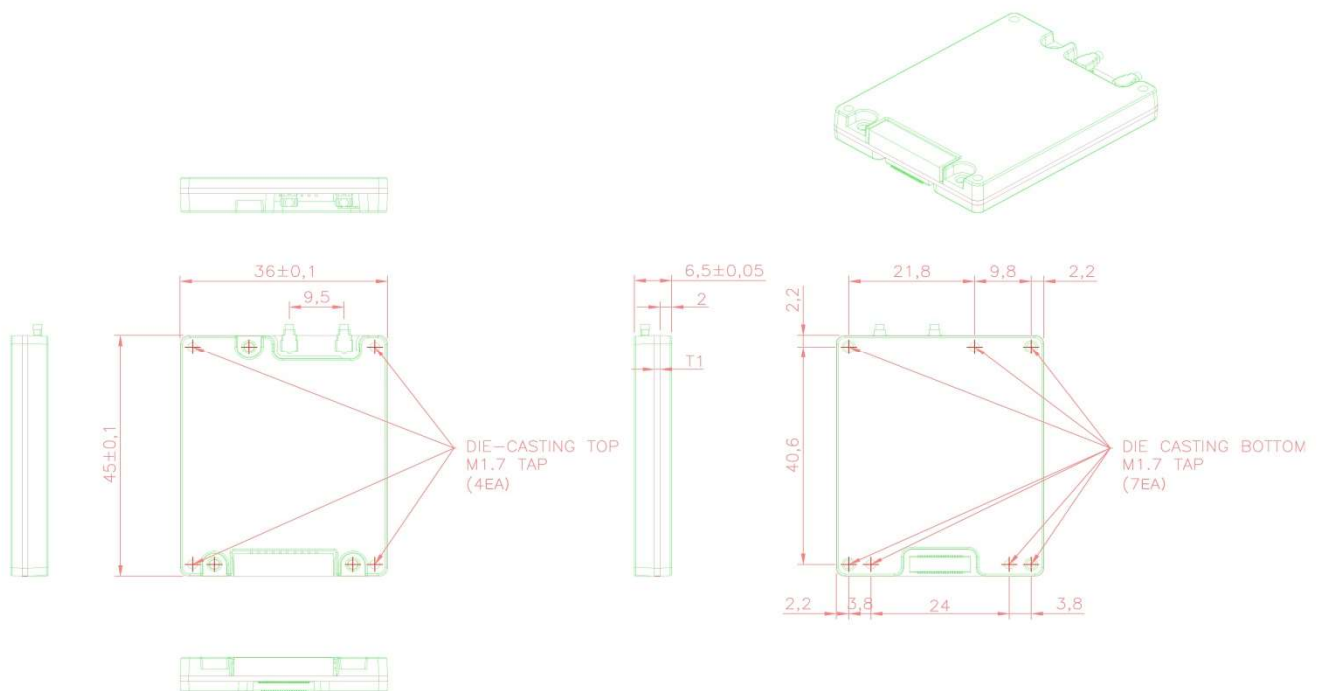
▷ Interface

Host Connector	Part No. : 12505WR-10 Manufacturer : YENOHO	Part No. : DF40C-40P-0.4V(51) Manufacturer : Hirose
ANT. Connector	Part No. : U.FL-R-SMT Manufacturer : Hirose	

	KCTM-2000 RFID Module Guide	Date	2019-04-30
		Rev	03
		Page	4

▷ Mechanical Drawing

- KCTM-2000 Dimension



** See 2D, 3D drawing.

	KCTM-2000 RFID Module Guide	Date	2019-04-30
		Rev	03
		Page	5

▷ WARNING & CAUTION

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.