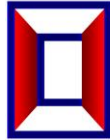


Product name	Optical fiber temperature measurement demodulation module	
Brand	HC Optical Science and Tech Co., Ltd	
Model	HC-DTS-6 Module	
Product parameters		
	Unit	Content
Measure the distance	Km	$\leq 10/\text{channel}$
Measurement channel	Road	1 ~ 8 (customizable)
Measure the time	s	1s/km
Alarm threshold	$^{\circ}\text{C}$	Users can make their own choices
Size of equipment	mm	230x230x70
Applicable ambient temperature	$^{\circ}\text{C}$	Temperature measurement host: -25 ~ + 55 Long-term temperature of optical cable: -20 ~ + 75 Short-term temperature of optical cable: -40 ~ + 150 (after 2 hours of installation, under stress-free conditions)
Temperature measurement range	$^{\circ}\text{C}$	-200 ~ 300 (the measurement temperature range is determined by the structure of the optical cable)
Temperature resolution	$^{\circ}\text{C}$	≤ 0.1
Spatial resolution ^①	m	1
Temperature accuracy ^②	$^{\circ}\text{C}$	$\leq \pm 1$
Positioning accuracy	m	$\leq \pm 1$
Sampling interval	m	0.4
Power supply	V	DC12 (intrinsically safe power input)
Power	W	≤ 10
Operating System	/	RTOS embedded system
Support agreement	/	Modbus TCP, private TCP/IP (customizable)
Host interface	A	USB*1、RS232*1、RJ45*1、RS485*1



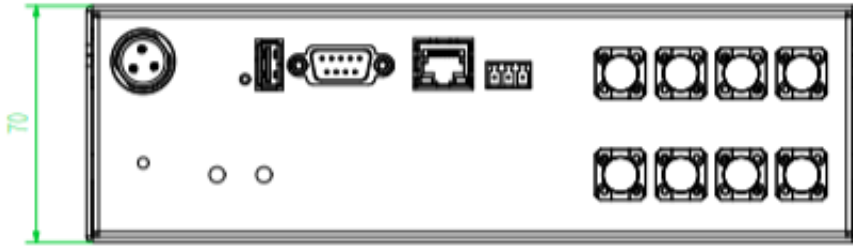
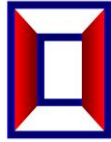
Fiber type	/	MM: 62.5/125 μ m、50/125 μ m
Connector type	/	FC/APC
Storage temperature	$^{\circ}$ C	-40~+80
Operating humidity	/	(0-95%) R. H. Non-condensable
Host life	Year	10
Degree of protection	/	Host IP20, optical cable IP68
Weight of the main engine	Kg	\leq 2.5

Note ①: The spatial resolution of the host is 2.5KM at the typical temperature of 25 $^{\circ}$ C, measured by the method of 10% -90% of the rising edge of the temperature curve.

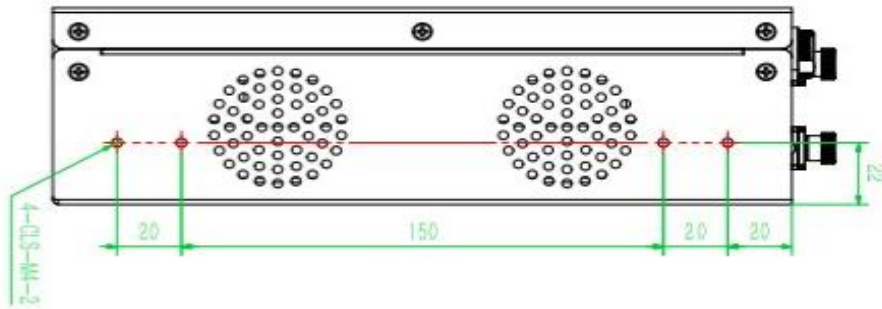
Note ②: When the host is at a typical temperature of 25 $^{\circ}$ C, the temperature range of the optical cable is 20 $^{\circ}$ C -100 $^{\circ}$ C.



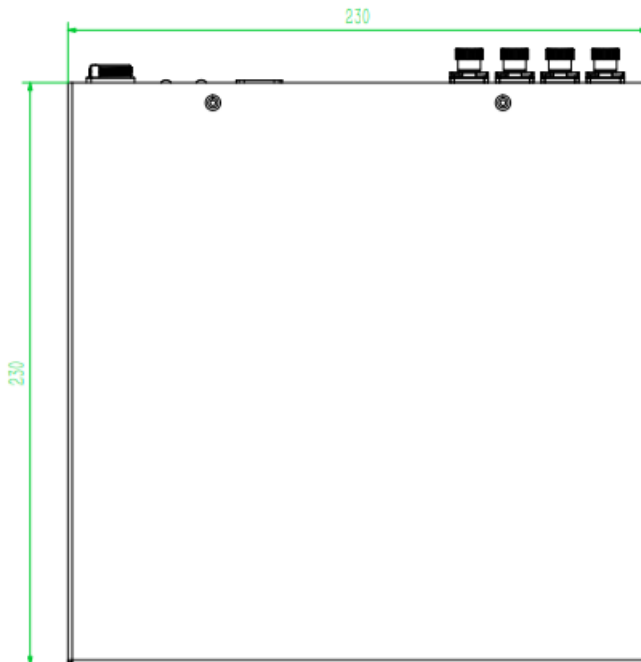
Product Structure Diagram of HC- DTS-6



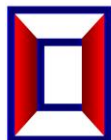
Front view



Side View



Aerial view



桂林恒创光电科技有限公司

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