TFN RM7 Series Datasheet

▲: Few manufacturers can do it ★: Innovation

Model Name	RM7-S3	RM7-S4	RM7-S5	RM7-M1	RM7-C1	RM7-SM1
Wavelength(nm)	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20	850 ± 20 1300 ± 20	1310 ± 20 1550 ± 20 1625 ± 20	850 ± 20 1300 ± 20 1310 ± 20 1550 ± 20
Quantity of Optical Ports	1				2	
Interface End Face	UPC/APC				APC/APC	UPC/APC
Suitable Fiber	SM			MM	SM	SM/MM
Test Range(km)	0.1/0.5/1.25/2.5/5/10/20/40/60/80/100/150/200/330/customize					
Pulse Width(ns)	SM:3/5/10/25/50/100/250/500/1000/2500/5000/10000/20000					
	MM(850):5/10/25/50/100/250/500/1000					
	MM(1300):5/10/25/50/100/250/500/1000/5000					
Event Dead Zone (m)	0.6			1	0.6	
Attenuation Dead Zone (m)	▲2.5			4	▲2.5	
Dynamic Range(dB)	42/40	45/43	▲50/48	26/32	44/42/40	26/32/40/38
Maximum Number of Sampling Points	256,000					
Minimum Point Spacing (m)	0.04					
Measurement Time(s)	5/15/30/45/60/90/120/180/customize					
Linearity(dB/dB)	± 0.05					
Loss Resolution (dB)	0.001					
Distance Uncertainty (m)	± (0.8+0.005%*distance+sampling resolution)					
Refractive Index Range	1.000000-2.000000					
Optical Light Source(OLS)	>5dBm, same as OTDR wavelength					
Light Source Adjustment	CW/270HZ/1KHZ/2KHZ/1KHZ+flash/2KHZ+flash					
OPM Parameters						
Response Wavelength	800-1700nm					
Calibration Wavelength	850/980/1270/1300/1310/1490/1550/1577/1625/1650nm					
Power Range	-50dBm--+30dBm					
Connector	2.5mm universal					
★Whether to Support Plugging and Unplugging	Support					
VFL Parameters						
Wavelength	650 ± 20nm					
Modulation Mode	CW/Flash (About 2HZ)					
Output Power	10mW					
Optical Connector	2.5mm universal					
★Whether to Support Plugging and Unplugging	Support					
★Laser Rangefinder						
Measuring Range	0.03-40m					
Resolution	0.01m					
Accuracy	0.02m					
Units of Measurement	m/ft					
★Whether to Support Plugging and Unplugging	Support					

Platform Parameters		
★Display		10.1 inch 1280*800 high brightness color TFT screen
Touch		Multi-touch capacitive touch screen
Interface	Business Interface	2 pcs, customized PCI-Ex1 interface
	USB	2 pcs, USB TypeAx2, USB TypeCx1
	TF Card Slot	1 pc
	▲NANO SIM Card Slot	1 pc
	3.5mm Headphone Jack	1 pc
	Ethernet Interface	1 pc，10/100/1000BASE-T
	DC Power Interface	1 pc, 5.5/2.5mm, positive inside and negative outside
	Module Interface	2 pcs, USB TypeCx2
Power Supply	Charge	15V 2.67A
	Charging Time	5.5 hours
	★Operating Time	>15 hours
Data Storage	Internal Storage	16G
	External Storage	USB storage, TF card
	Supported formats	Write: sor, tor, pdf, png, csv; Read: sor, tor, pdf, png, csv
Wireless Technology	Cellular Network	FDD-LTE/TDD-LTE/WCDMA/TD-SCDMA/GSM/EDGE
	WIFI	2.5G+5G, 802.11a/b/g/b/ac
	Bluetooth	BT4.2(BR/EDR+LE)
Positioning Technology		GPS/A-GPS/GLONASS/BD
Backlight Adjustment		Infinitely adjustable
Hibernate		15s/60s/5min/30min/never/5 levels adjustable
Automatic Shut-down		1-12hour/never/13 levels adjustable
Language		Simplified Chinese/English/Other languages can be customized
Dimensions		287mm*190mm*74mm
Weight		About 1861g (excluding OTDR business module)
Operating Temperature		-10℃-50℃
Storage Temperature		-20℃-70℃
Relative Humidity		< 90%

Other Functions
Supports the end-face microscope function. You can connect an external USB handheld end-face microscope to view the fiber end-face status and take screenshots to save file data.
Supports optical link analysis, one-click automatic testing, has automatic analysis of events generated in optical cable links and link predefined functions, and can identify macro-bend events, reflection events, loss events, optical splitters and other events encountered in the link.
▲Supports network testing tools and integrates commonly used network testing tools such as SSH, PING, IFCONFIG, WHOIS, HTTP, etc., which can quickly determine whether the target network is connected to the Internet.
▲Supports opening 30 curves at the same time for comparison. The color of the opened curves can be defined to make it clearer during the observation of the curves.
Support exporting .SOR/.TOR/.PDF format files
▲Supports multi-task simultaneous operation. During the OTDR test process, you can switch to other working platforms such as: OPM power detection, end-face microscope to view the end-face status
▲Supports browser function and has the ability to access the web. Users can access the internal web management interface through the browser. Of course, they can also browse the Internet normally when connected to the external network.