

# 1.4GHz TDD-COFDM wireless Networking transceiver

## SG-TD1400



Such a new TDD\_COFDM transceiver model SG-TD1400 use of the new developing products of our company. It is wireless transmission equipment for our latest Mini pure digital. The use of advanced time division processing, TDD bidirectional network transmission and the leading COFDM modulation technology combined, provide complete bi-directional encryption (support AES\_128 encryption) network data transmission channel, anti multi-path, high speed mobile data, voice the perfect product. H.264 code technology as the core, assigning channel resources through slot control, through the sub-carrier frequency flexibly assigned to multiple user terminals, within the same frequency maximized realized access multiple endusers multiple access. In the NLOS and high speed movement realize real-time two way transparent information transmission, Multiple wireless networks can be integrated with each other layout large network coverage.

As its super small volume, light weight especially suitable for application in UAV, High-speed Rail, train and other complex environments.

### Features:

- \*Provide up to 6.5Mbps of data flow, dynamic adaptive rate allocation technology
- \*The baud rate can Up to 921600bps maximum.
- \*Smart settings, simple operation, easy to use;
- \*Support transparent PTP&PMD network technology
- \*Safety with AES 128 bit, can set user's password;
- \*Support non line of sight ( NLOS ) high-speed mobile transmission
- \*Provide standard RS-232&RS-485 + RJ45 Ethernet
- \*Transmit/receive video audio, data and other multimedia signals simultaneously
- \*Support high standards of Industrial and military level applications
- \*The small volume, light weight, easy to carry, the radiating aluminum casing
- \*High clear OLED digital display, the interface simple and easy operation

## Specification of TDD-COFDM transceiver

Model	SG-TD1400
Power supply	DC7V ~ 17V, 10W consumption
Ethernet	10/100BaseT、 Auto-MDI/X、 IEEE802.3
	TCP,UDP,TCP/IP,TFTP,ARP,ICMP,DHCP,HTTP,SNMP,FTP,DNS
Output frequency	1430-1440MHz (adjustable)
Output RF power	37dbm (5w)
Bandwidth	4MHz/8MHz (adjustable)
Interface	RJ-45 Ethernet ,RS232/RS485/RS422
Resolution	Support 720P and 1080P@50/60hz, 30 frames
Encryption mode	128bit AES(or 256bit AES)
Error correction mechanism	32bit of CRC,ARQ
Modulation	TDD_COFDM
Parameter control	Through OLED control panel to modify parameters
Working temperature	-40℃ ~ 85℃
Dimension	155*108*22mm
Weight	550g