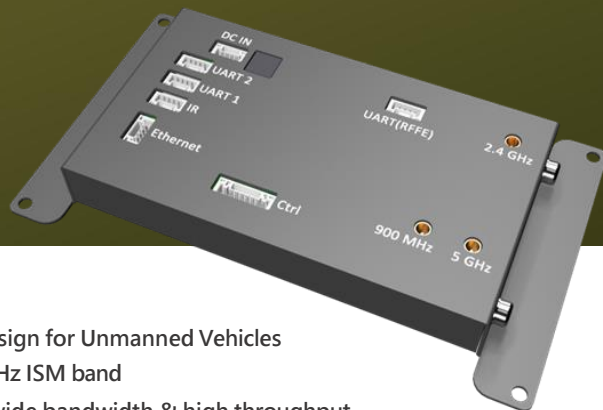


SWT1528

Swift-Tri Band Mesh Slim Radio 800 MHz/ 2.4/5GHz Hot Standby and Auto Switching

for Long-Range and NLOS applications



Small, Lightweight, Low
power consumption

Hyperable
Technologies®

Features

- Small, Lightweight, design for Unmanned Vehicles
- 800 MHz & 2.4 / 5.8 GHz ISM band
- 2.4 / 5.8 GHz provide wide bandwidth & high throughput
- 800 MHz with narrow channel bandwidth provide great interference isolation · long coverage distance and Near-LOS transmission.
- Tri-band wireless modules support hot standby and auto switching function.
- Peer-to-peer communication architecture
- Support flight control (Uart) & Video stream (Ethernet) dual interfaces transmission. (available for customization to integrate the remote-control interface---S.Bus)
- AES-256 (WPA2-PSK) encryption
- Management control interface support SSH with ECDSA encryption
- Coverage distance up to 5~10 kilometers (with a suitable antenna)

Specification

Frequency	ISM band 2.4GHz / 5.8GHz / 863-870 MHz (customization range: 850-950 MHz)
Modulation	Proprietary OFDM-BPSK 1/2 (MCS0) ~ 64QAM 5/6 (MCS7)
Output Power	27 dBm @ 2.4/5.8 GHz ; 27dBm @ 800MHz
Max. Data Rate	50 Mbps (2.4GHz) / 50 Mbps (5.8GHz) / 15Mbps (800MHz)
Operation Mode	Tri-band wireless module (Hot Standby/ Auto Switching)
Hardware Interface	<ol style="list-style-type: none">1. DC In (12~24V DC) x 12. IR x 13. UART x 24. Ethernet x 15. Control port (GPIO) x 16. MMCX type (Female) connector x 3
Security	Wireless tunnels: Proprietary Protocol, WPA2-PSK & AES-256 bits Encryption Management: NIST 800-193 platform firmware resiliency, multiple firmware images redundancy, Independent management port, SSH with RSA 1024 bits Key management port, SSH/SCP with RSA 1024 bits firmware upgrade tunnel
Power Consumption	DC 12-24V
Environment Conditions	Operating Temp: -30 ~ 60 °C Storage Temp: -30 ~ 70 °C Humidity: 95% non-condensing
Size and Weight	Dimension : 94.3 (L) * 48 (W) * 12.2 (H) mm ; W : 75g
Warranty	1 year



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