SCORPION Point to Point **3000 SERIES**







The best-in-class carrier grade wireless bridge

SCORPION is the most advanced point-to-point wireless solution at the most competitive price in the market.



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SCORPION introduces superior dynamic net throughput of 300Mbps combined with ultra-low latency and best PPS delivery.

Designed for unmatched interference rejection, SCORPION's unique Automatic Interference Sensibility (AIS) technology guarantees stable performance with constant latency and throughput.

SCORPION's Point-to-Point solutions set a benchmark of unrivaled performance and reliability, making it the ultimate choice for future-proof wireless systems.



High Performance Radio

- Superior net throughput 300 Mbps
- Dynamic asymmetric capacity
- Best latency < 3 ms
- Spectral efficiency 6.75 b/s/Hz
- Configurable channel bandwidth 3.5-50Mhz
- 128-bit AES encryption & MAC level authentication
- TDD and FDD modes software configurable
- Dynamic Frequency Selection (DFS)

Unmatched Interference Rejection

- AIS (Automatic Interference Sensibility) technology makes SCORPION the most stable wireless solution in the market.
- Time Synchronization eliminates self-interference and allows frequency reuse.
- Higher capacity, longer range and diversity.
- The only solution with Hitless ACM Adaptive Coding & Modulation.
- ACS Automatic Channel Selection.

Extremely Low CAPEX & OPEX

- Most competitive price
- Rugged & Reliable IP67 design
- Compact & Simple to install and maintain
- <7Watt power consumption
- Multiple frequency bands in one radio
- State-of-the-art NMS

Advanced Networking

- HTTP, EMS, SNMP and Telnet management
- QoS based on 802.1p, TOS & DSCP
- VLAN tagging/stripping & QinQ
- Uplink and downlink bandwidth
- Over the air remote management



Specifications



Radio			
Radio Frequency	4.8-6.0 GHz Country Dependent		
Net Throughput	Net Aggregate throughput 300 Mbps		
PPS	Up to 400,000 Packets Per Second		
Channel Size	Configurable - 3.5/5/7/10/14/20/28/40/50 MHz		
Waveform	Advanced OFDM dual polarization - BPSK, QPSK, 16QAM, 64QAM:		
	Adaptive Coding & Modulation (ACM)		
	Fixed modulation mode LDPC coding		
	Configurable modulation thresholds (minimum / maximum)		
Output Power	Up to 30dBm, configurable in 1dB step		
Handling Interference	AIS – Automatic Interference Sensibility		
	Hitless ACM – Adaptive Coding & Modulation		
	ACS – Automatic Channel Selection		
	• FEC – Forward Error Correction, k = 1/2, 2/3, 3/4, 5/6		
	TDD and FDD modes - software configurable		
Encryption & Security	128-bit AES & MAC level authentication		
DFS (ETSI)	Supported		
Antenna Configurations			
Model F300	24dBi (integrated)		
Model M300	Connectors for external antenna (2 x TNC Female Socket)		
Networking and Managem	· ·		
Topology	Point to Point (PTP)		
Access Technology	Time Division Duplex (TDD) & Frequency Division Duplex (FDD)		
	Time Division Multiple Access (TDMA) - dynamic or symmetric		
Data Latency	<3ms typical		
Network Modes	Layer 2 Bridge, VLAN, QinQ VLAN / broadcast / IP filters, Layer 3 Routing, NAT, DHCP server , DHCP Relay		
VLAN	Transparent, VLAN filter, tagging/stripping, QinQ		
QoS	8 priority queues based on 802.1p, TOS and DSCP		
Traffic Shaping	Bandwidth control for uplink and downlink independently		
SLA (Service Level Agreement)			
Management	Cloudstream NMS (path profiling tool), Telnet, SNMP, HTTP, Built in throughputest and Spectrum Analyzer		
Performance Management	Real time & history - logs and counters of traffic and radio data		
Physical and Environmenta	al		
Physical Interface	2x 10/100/1000 Base-T (ODU)		
Connector Type	2x RJ-45		
Dimensions and Weight	195 x 185 x 52mm (without time synchronization connector), <1Kg (connectorize & 300 x 300 x 60mm, <2 Kg (Integrated Antenna)		
Power	Power over Ethernet (PoE) - 48 VDC		
PoE Adapter AC-DC:	` '		
• Input Power	100-240 VAC, 47-63 Hz		
• Dimensions	120 x 60 x 35mm		
PoE Adapter DC-DC:			
• Input Power	10-60 VDC		
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Specifications are subject to change periodically

• Dimensions

Power Consumption

Operating Temperature

Operating Humidity

IP Rating



160 x 60 x 30mm

<7Watt

-40°c to 60°c 95% non condensing