

SCORPION High Capacity Point to Point
7000 SERIES

SCORPION



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Model Numbers: F450, M450

The best-in-class carrier grade wireless bridge

SCORPION High Capacity Point to Point wireless solution is the most advanced at most competitive price in market.

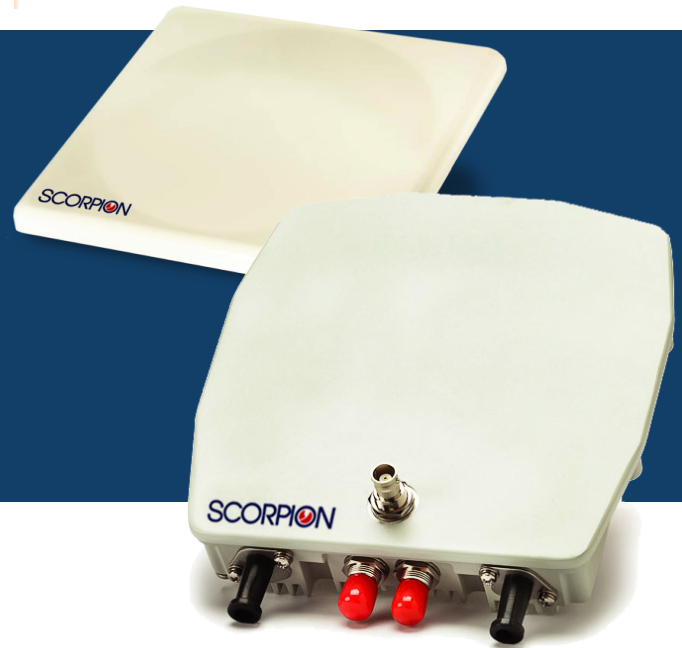
SCORPION High Capacity Point to Point 7000 SERIES

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SCORPION F450, M450 introduces superior dynamic net throughput of 700 Mbps combined with ultra-low latency and best PPS delivery.

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

SCORPION high capacity point to point solution set a benchmark of unrivaled performance and reliability, making it the ultimate choice for future-proof wireless systems.



High Performance Radio

- Superior net throughput – 700 Mbps
- Dynamic asymmetric capacity
- Best latency – <3 ms typical
- Spectral efficiency (net) 8.75 b/s/Hz
- Long range – more than 50 Km
- Configurable channel bandwidth – 5/10/20/40/80MHz
- 128-bit AES encryption & MAC level authentication
- 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
- Flexible capacity, software upgradeable
- Rugged & Reliable IP67 design
- Compact & Simple to install and maintain
- <10W 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 control
- Over the air remote management

Radio

Radio Frequency	4.8 - 6.0 GHz Country Dependent
Net Throughput	700 Mbps
Channel Size	Automatic or configurable – 5/10/20/40/80 MHz
Waveform	Advanced OFDM dual polarization Modulations – BPSK, QPSK, 16QAM, 64QAM, 256QAM
Output Power	Configurable up to 30dBm
Handling Interference	AIS - Automatic Interference Sensibility ACM - Adaptive Coding & Modulation ACS - Automatic Channel Selection FEC - Forward Error Correction, k = 1/2, 2/3, 3/4, 5/6
Encryption & Security	128-bit AES & MAC level authentication
DFS (ETSI)	Supported

Antenna Configurations

Model F450	24dBi (integrated)
Model M450	Connectors for external antenna (2 x TNC Female Socket)

Networking and Management

Topology	Point to Point (PTP)
Access Technology	Time Division Duplex (TDD) - dynamic or symmetric
Data Latency	<3 ms typical
Network Modes	Layer 2 Bridge, VLAN, QinQ VLAN, NAT, DHCP server
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)	MIR/CIR/BE
Management	Cloudstream NMS (path profiling tool), Telnet, SNMP, HTTP, Built in throughput test and Spectrum Analyzer
Performance Management	Real time & history - logs and counters of traffic and radio data

Physical and Environmental

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 (connectorized) & 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
• Dimensions	160 x 60 x 30mm
Power Consumption	<10W
IP Rating	IP67
Operating Temperature	-40°C to 60°C
Operating Humidity	95% non condensing

Specifications are subject to change periodically