SCORPION CPE
3000 SERIES

SCORPION

SCORPION   Model Numbers: S300, SA300

The best-in-class carrier grade wireless bridge

SCORPION CPE is the most advanced Radio wireless solution at the most competitive price in the market.

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SCORPION CPE introduces superior dynamic net throughput of 50Mbps (upgradable to 100/200Mbps), combined with ultra-low latency and best PPS delivery.

Scorpion Radio 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 – 50Mbps and upgradable to 100/200Mbps
- Dynamic asymmetric capacity
- Best latency - <3 ms (typical per CPE)
- Configurable channel bandwidth - 3.5-50Mhz
- 128-bit AES encryption & MAC level authentication
- Extended Temperature -40 to 60 C
- Dynamic Frequency Selection (DFS)

Extremely Low CAPEX & OPEX

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

Unmatched Interference Rejection

- AIS (Automatic Interference Sensibility) technology makes SCORPION the most stable wireless solution in the market.
- Time Synchronization - Auto Sync with its Master Unit.
- Higher capacity, longer range and diversity.
- The only solution with Hitless ACM - Adaptive Coding & Modulation.
- ACS – Automatic Channel Selection.

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

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Radio

Radio Frequency	4.8GHz to 6GHz
Net Throughput	Scalable 5 - 100Mbps
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 30 dBm, 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-bits AES & MAC level authentication
DFS (ETSI)	Supported

Antenna Configurations

Model S300	24dBi (integrated)
Model SA300	Connectors for external antenna (2 x TNC Female Socket)

Networking and Management

Access Technology	Time Division Duplex (TDD) & Frequency Division Duplex (FDD) Time Division Multiple Access (TDMA) - dynamic or symmetric
Data Latency	<3 ms typical
Network Modes	Layer 2 Bridge, VLAN, QinQ, VLAN / broadcast / IP filters
VLAN	Transparent, VLAN filter, tagging/stripping, QinQ
QoS	8 priority queues based on 802.1p, TOS and DSCP
SLA (Service Level Agreement)	MIR/CIR/BE
Management	Cloudstream NMS (path profiling tool), Telnet, SNMP, HTTP
Performance Management	Real time & history - logs and counters of traffic and radio data

Physical and Environmental

Physical Interface	10/100 Base -T (ODU)
Connector Type	RJ-45
Dimensions and Weight	195 x 185 x 52mm, <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	100 x 60 x 35mm
PoE Adapter DC-DC:	
• Input Power	10-60 VDC
• Dimensions	160 x 60 x 30mm
Power Consumption	<7Watt
IP Rating	IP67
Operating Temperature	-40c to 60c
Operating Humidity	95% non condensing

Specifications are subject to change periodically

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