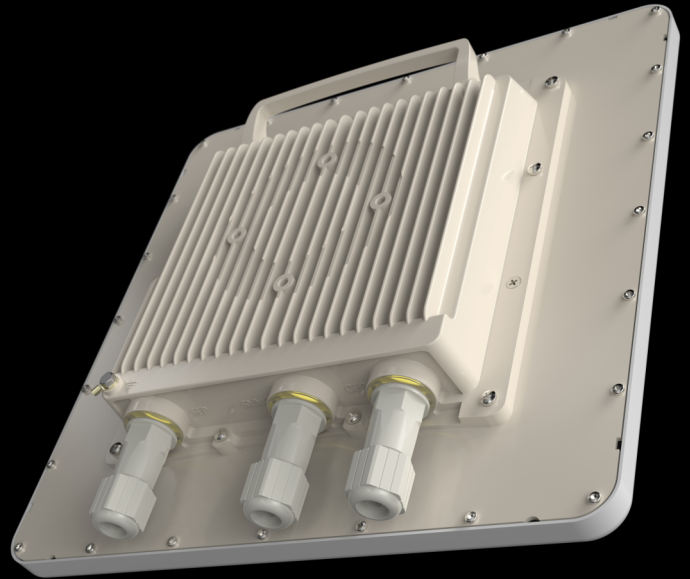


ASTRADRIVE

E5-BSID

PRODUCT DATASHEET

The DRIVE E5-BSID is a carriergrade base station engineered for long-range wireless infrastructure, delivering connectivity with throughput up to 800 Mbps and coverage area up to 20 km.



Purpose-built for demanding network deployments, the versatile base stations with integrated sector antenna of 16 dBi gain, has hardware and software modifications, new algorithms with DRIVE network technology for aggregation and quick switching of the moving objects passing with seamless roaming at speeds of up to 400 km/h.

Net throughput

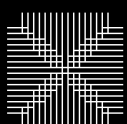
Up to 800 Mbps in 80 MHz

Transmit power

Up to 27 dBm

Recommended distances

Up to 20 km



Astrawireless

Manufacture: ASTRA WIRELESS TECHNOLOGY FZ-LLC
Brand: ASTRAWIRELESS

TECHNICAL SPECIFICATION

Net throughput	up to 800 Mbps in 80 Mhz up to 380 Mbps in 40 Mhz up to 220 Mbps in 20 Mhz
Packet performance	290 000 pps
Transmit power*	up to 27 dBm
Receiver sensitivity	down to -93 dBm
Antenna gain	16 dBi
Frequency range**	4900-6050 MHz
Channel width	20, 40, 80 MHz
Center frequency adjustment step	1 MHz
Power consumption	up to 20 W
Recommended distances	up to 20 km

*May be limited by regional EIRP restrictions

**May be limited by regional frequency restrictions



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RAKEZ AMENITY CENTER AL HAMRA
INDUSTRIAL ZONE-FZ RAK, UAE

RADIO FEATURES

- Adaptive TDMA air protocol
 - Dynamic and fixed air frame duration
 - Subscriber activity aware scheduling
 - Permanent channel testing
- Air frame Configurable
 - From 1 to 10 ms
 - Uplink / Downlink ratio Configurable from 50:50 to 92:8, in any direction
- Voice/RTP Aware Superpacketing
 - DFS / Radar detection / Instant DFS
- Channel Time Adjustment
 - Channel Time Adjustment
 - Spectrum Analyzer mode
 - Channel testing tools
- Automatic Bitrate Control
 - Automatic Bitrate Control
 - Automatic Transmit Power Control
 - Automatic Distance Measurement

NETWORKING FEATURES

- Switching
 - Full-fledged 2nd layer switch
 - VLAN 802.1Q, 802.1ad
 - IGMP Snooping
 - MAC/IP filtering, L2/L3 Firewall
 - STP, RSTP support
- Quality of Service
 - IEEE 802.1p, IP TOS/DiffServ support
 - 17 priority queues
 - Full voice support
 - Auto priority of multicast
 - Traffic limiting (absolute, relative)
- Routing
 - ARP protocol support
 - NAT (multipool, H.323-aware)
 - DHCP client/server/relay
 - ODR routing protocol
 - RIPv2 / OSPFv2 /static routing
 - Ethernet-over-IP and IP-over-IP tunnels
- Own network infrastructure
 - Proprietary MINT network protocol
 - Pseudo-radio interface



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MANAGEMENT AND SECURITY

Management features

- Various Management Protocols: HTTP, HTTPS, SSH, Telnet, SNMP v1/2c/3 (MIB-II and proprietary MIBs)
- Graphical User Interface
- Antenna alignment tool
- Automatic software update
- Online monitoring with proprietary EMS NEXT

Safety & Security

- Storm/flood protection
- Password protection
- Secure CLI access via SSH protocol
- AES-128/256 (pending)

LED Indication

- Power status, wired link status

STANDARD COMPLIANCE

Radio

- ETSI EN 301 893 v.2.1.1
- ETSI EN 302 502 v.2.1.1
- FCC part 15.407

Safety

- EN 62368-1:2014+A11:2017
- UL 62368-1:2014
- EN 62311:2008

RoHS3

- EN IEC 63000:2018

EMC

- ETSI EN 301 489-1 v.2.1.1
- ETSI EN 301 489-17 v.3.1.1
- FCC Part 15 Class B

Lightning protection

- IEC 61000-4-2:
+/-4kV (contact discharge),
+/-8kV (air discharge)
- IEC 61000-4-4:
+/-0.5kV IEC 61000-4-5:
+/-1kV (line-to-ground),
+/-0.5kV (line-to-line)

OPERATION OPTIONS

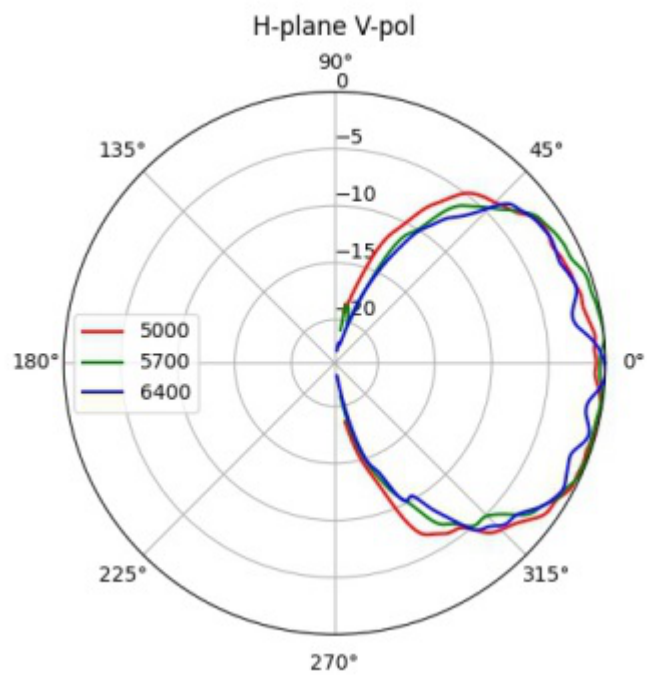
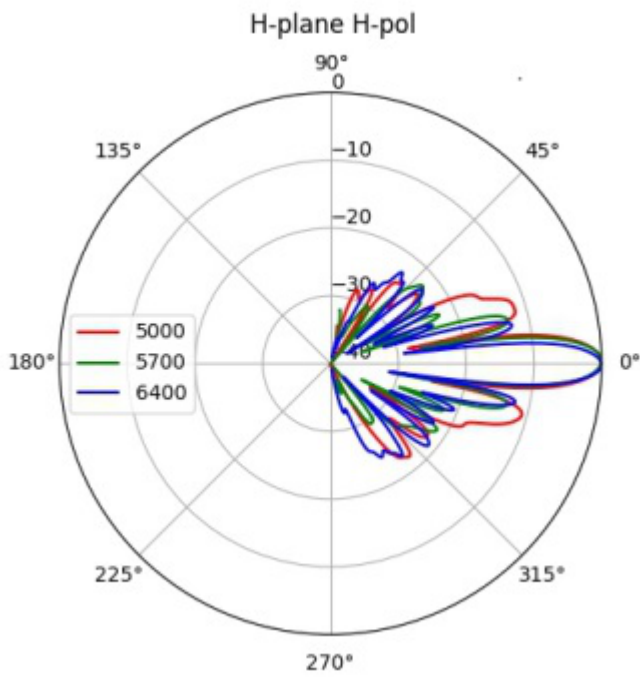
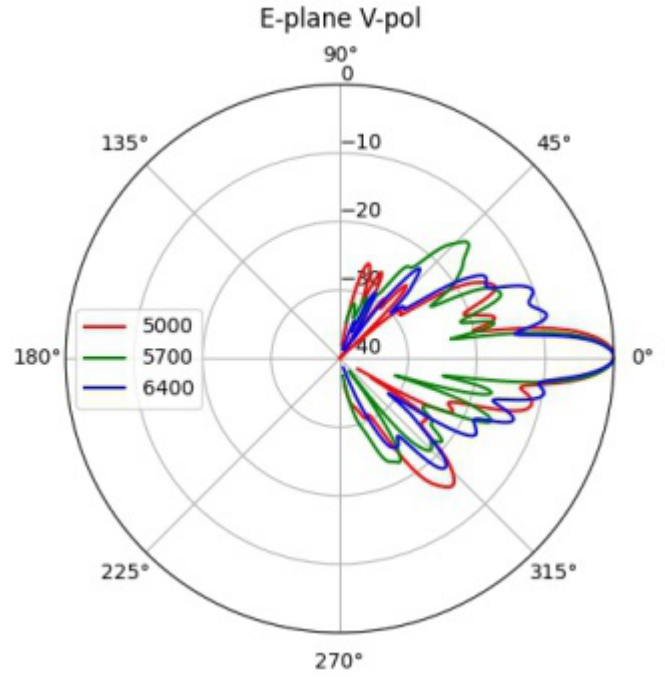
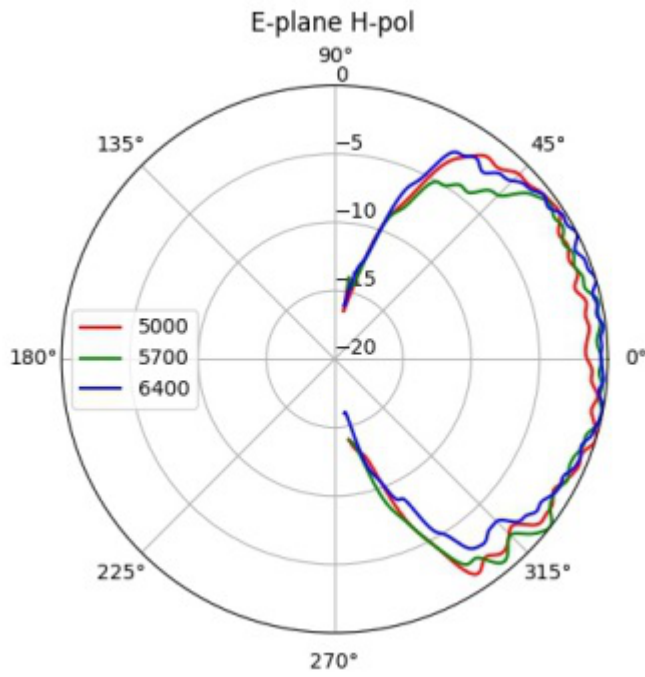
Outdoor Unit conditions

- -40..+60°C, can be extended to -55..+60°C (models with "t" index)
- 100% humidity, condensing
- Dust and water protection: IP56, IP67
- Wind load: 160 km/h operational; 200 km/h survival

Indoor Unit conditions

- 0..+40°C
- 95% humidity, non-condensing
- Cooling: fanless design corrugated aluminium

RADIATION PATTERN



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