

Image Intelligence in Real-Time



The A1 is a ground sector antenna designed to provide approximately 60° of coverage. The A1 is lightweight and easy to mount on buildings or on towers. The A1 is designed to be installed around a structure to create an overlapping high-gain reception system. Multiple A1s can be used to form a 360° diversity antenna system capable of up to 15dBi of gain in any one direction when positioned correctly.

The A1 can be purchased in either single or multi-band versions. It incorporates a high-performance down-converter that has exceptional selectivity and noise figure characteristics. This enables the A1 to provide a UHF output regardless of the input frequency. Power for the A1 is provided through coaxial cable that connects the antenna to Troll's versatile diversity receiver and antenna controller, the DMR6000.

The output of each antenna is fed into Troll Systems' DMR receiver which is capable of switching between individual antennas to ensure maximum performance. Troll's DMR6000 series receivers provide two to eight antenna inputs with secure Ethernet backhaul capability.

Benefits

- Lower installation costs
- Reception up to three frequency bands simultaneously (up to eight antennas inputs per diversity receiver)
- Packet-based IP distribution
- 1.4GHz to 7.1GHz down-converted to UHF Band
- Ethernet backhaul DMR6000 diversity receiver

Air-to-Ground Ethernet Connectivity

Directional Sector Antenna

Multi-Frequency | Multi-Channel
High-Gain Diversity Antenna System



1.4 to 7.1GHz in bands

Compact - lightweight

Single to tri-band options

Internal BDCs and filters as required

Multiple pipe mounting options

Up to 15dBi gain

Compact, Sector Antennas for High-Gain Diversity Receive Systems

A1

SPECIFICATIONS

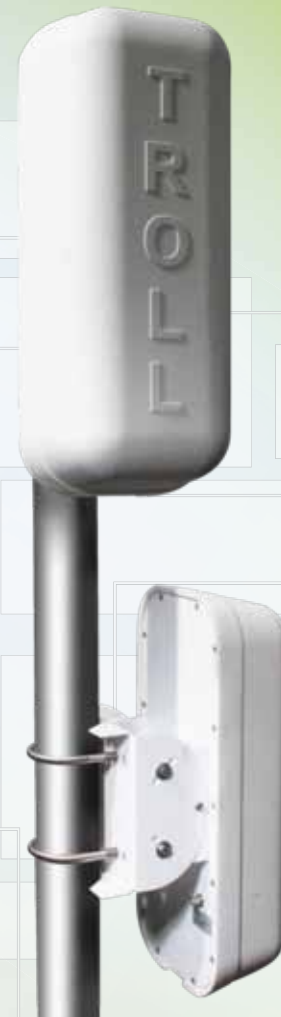
Specifications subject to change without notice.

System Properties

Connection: TNC for RG6 Cable
Control: NA
Input Power: Power over coax 11-32VDC
Input Current: 3W
Output: UHF
Control Device: Troll DMR Series Diversity Receiver

Block Down Converters

RF Frequency Bands: 1.2GHz - 7.2 GHz (specify frequency range)
IF Frequency Range: 150 - 900 MHz
Noise Figure: L-S Bands < 2dB
 C Bands < 3 dB
Gain: 35dB nominal



Antenna Characteristics	Low L Band	Low L Band	S Band	Lower C	Upper C
Type:	Dual Can	Dual Can	Dual Slot	Quad Slot	Quad Slot
Mid-Band:	1.4-1.5 GHz	1.4-1.5 GHz	2-2.5 GHz	4.4-5.0 GHz	6.4-7.1 GHz
Beamwidth:	65°AZ / 35°EL	65°AZ / 35°EL	60°AZ / 30°EL	63°AZ / 14°EL	60°AZ / 12°EL
Antenna Gain:	11 dBi	11 dBi	13 dBi	14 dBi	15 dBi

Environmental

Operating Temperature: -15C to + 55C
 - 40C to + 80C

Mechanical

Dimensions: 8.7" W x 20.7" H x 5.4" D
Weight: 8lbs
Mounting: 2" to 4" pipe mount
Downtilt Bracket: + 20° to - 20°



The Data Link Experts

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