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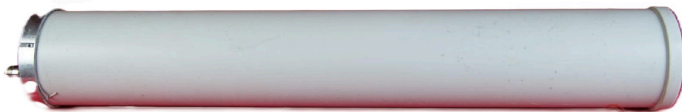
Data Sheet

August 15, 2026

ALPHA WIRELESS

Alpha Wireless AW3477-S1-G

The Alpha Wireless AW3477-S1-G is a tri-sector omni-directional antenna engineered for small cell deployments operating in the 2.496 to 2.69 GHz band. Delivering 8.5 dBi gain with dual slant 45-degree polarization, this antenna provides 360-degree horizontal coverage and 12-degree vertical beamwidth optimized for cellular infrastructure requiring consistent azimuthal radiation. MIMO-capable architecture supports multi-stream transmission with excellent isolation characteristics. Compatibility & Integration Mini DIN female connectors enable direct integration with standard cellular backhaul infrastructure. GPS integration facilitates network synchronization without auxiliary timing modules. Mechanical tilt capability eliminates need for separate adjustable brackets. Aumictech offers NIST-traceable calibration and repair for the Alpha Wireless AW3477-S1-G. All calibrations are performed



MODEL

**Alpha Wireless
AW3477-S1-G**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AW3477-S1-G

LISTING

<https://aumictechlabs.com/products/aw3477-s1-g-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Alpha Wireless AW3477-S1-G is a tri-sector omni-directional antenna engineered for small cell deployments operating in the 2.496 to 2.69 GHz band. Delivering 8.5 dBi gain with dual slant 45-degree polarization, this antenna provides 360-degree horizontal coverage and 12-degree vertical beamwidth optimized for cellular infrastructure requiring consistent azimuthal radiation. MIMO-capable architecture supports multi-stream transmission with excellent isolation

characteristics. Technical Specifications Frequency Range: 2.496 to 2.69 GHz Gain: 8.5 dBi Polarization: Dual Slant (45°) Beamwidth: 360° horizontal, 12° vertical VSWR: 1.43:1 Return Loss: 15 dB Isolation: 28 dB PIM (3rd Order): -150 dBc Upper Sidelobe Suppression: 18 dB Cross-Polar Discrimination: 12 dB Power Handling: 50 W maximum Connectors: 2 × Mini DIN female Impedance: 50 Ω Mechanical Electrical Tilt: 0 to 14° (±1° deviation) Dimensions: 30.9 inches length × 4.7 inches diameter (785 mm × 119 mm) Weight: 3.2 kg (7.05 lbs) Key Features Integrated GPS support for timing and location synchronization MIMO-enabled for enhanced spectral efficiency Mechanical electrical tilt adjustment for rapid deployment optimization Outdoor-rated construction suitable for harsh RF environments RoHS compliant Pole mount and wall mount compatibility Typical Applications Small cell network densification Macro-to-micro coverage transitions Enterprise and municipal deployments Licensed LTE and 5G sub-6 GHz bands Compatibility & Integration Mini DIN female connectors enable direct integration with standard cellular backhaul infrastructure. GPS integration facilitates network synchronization without auxiliary timing modules. Mechanical tilt capability eliminates need for separate adjustable brackets.

Features & description

From manufacturer datasheet

Polarization: dual slant 45 degree

Port Count: 2 MET Electrical Tilt: 0 to 14 degree Tilt Deviation: 1 degree Vswr: 1.43:1 Return Loss: 15 dB Isolation: 28 dB Impedance: 50 ohm Connectors: Mini-DIN female Length: 30.9 inch Diameter: 4.7 inch Mass: 3.2 kg Pim: minus 150 dBc UsIs: 18 dB upper sidelobe suppression Xpd: 12 dB cross-polar discrimination Mounting: pole mount or wall mount Environment: indoor/outdoor Manufacturer: Alpha Wireless Literature: Alpha Wireless AW3477-S1-G catalog / Everything RF parameter table Family: Alpha Wireless small-cell MET omni Form Factor: canister small-cell antenna System Role: 2496-2690 MHz small-cell coverage Brand Lineage: Alpha Wireless Queue Title: Alpha Wireless AW3477-S1-G Notes From Alpha Wireless AW3477-S1-G catalog and Everything RF parameter table (2496-2690 MHz, 8.5 dBi, 50 W, 360/12 degree, 2 MET, 0-14 degree tilt, 30.9 × 4.7 inch, 3.2 kg, 50 ohm Mini-DIN). Connector gender and paint are on the AW3477-S1-G outline.

AW3477S1G Characteristics / Specifications

PARAMETER	VALUE
Model	AW3477-S1-G
Instrument Type	small cell omni / tri-sector antenna
Frequency Range	2496 to 2690 MHz
Peak Gain	8.5 dBi
Power Handling	50 W
Azimuth Beamwidth	360 degree
Elevation Beamwidth	12 degree
Polarization	dual slant 45 degree
Port Count	2 MET
Electrical Tilt	0 to 14 degree
Tilt Deviation	1 degree
Vswr	1.43:1
Return Loss	15 dB
Isolation	28 dB
Impedance	50 ohm
Connectors	Mini-DIN female
Length	30.9 inch
Diameter	4.7 inch
Mass	3.2 kg
Pim	minus 150 dBc
UsIs	18 dB upper sidelobe suppression
Xpd	12 dB cross-polar discrimination
Mounting	pole mount or wall mount
Environment	indoor/outdoor
Manufacturer	Alpha Wireless

PARAMETER	VALUE
Literature	Alpha Wireless AW3477-S1-G catalog / Everything RF parameter table
Family	Alpha Wireless small-cell MET omni
Form Factor	canister small-cell antenna
System Role	2496-2690 MHz small-cell coverage
Brand Lineage	Alpha Wireless
Queue Title	Alpha Wireless AW3477-S1-G

AW3477S1G Specifications

PARAMETER	VALUE
Applications	Band 41 / 2496-2690 MHz small-cell omni coverage with manual electrical tilt in wireless infrastructure.
Key Features	2496 to 2690 MHz 2-port MET omni
Technical Specifications	Model: AW3477-S1-G

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	AW3477-S1-G
Instrument Type	small cell omni / tri-sector antenna
Frequency Range	2496 to 2690 MHz
Peak Gain	8.5 dBi
Power Handling	50 W
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Polarization	dual slant 45 degree
Port Count	2 MET
Electrical Tilt	0 to 14 degree
Tilt Deviation	1 degree
Vswr	1.43:1
Return Loss	15 dB
Isolation	28 dB
Impedance	50 ohm
Connectors	Mini-DIN female
Length	30.9 inch
Diameter	4.7 inch
Mass	3.2 kg
Pim	minus 150 dBc
Usls	18 dB upper sidelobe suppression
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Mounting	pole mount or wall mount
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Literature	Alpha Wireless AW3477-S1-G catalog / Everything RF parameter table

PARAMETER	VALUE
Family	Alpha Wireless small-cell MET omni
Form Factor	canister small-cell antenna
System Role	2496-2690 MHz small-cell coverage
Brand Lineage	Alpha Wireless
Queue Title	Alpha Wireless AW3477-S1-G

Notes

From Alpha Wireless AW3477-S1-G catalog and Everything RF parameter table (2496-2690 MHz, 8.5 dBi, 50 W, 360/12 degree, 2 MET, 0-14 degree tilt, 30.9 x 4.7 inch, 3.2 kg, 50 ohm Mini-DIN). Connector gender and paint are on the AW3477-S1-G outline.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.