

FFV4-65A-R6



12-port sector antenna, 4x 617-894 and 8x 1695-2690 MHz, 65°HPBW, 6x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Excellent wind loading characteristics

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| Band | Multiband |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage |
| Radome Material | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 0 |
| RF Connector Quantity, mid band | 8 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 12 |

Remote Electrical Tilt (RET) Information

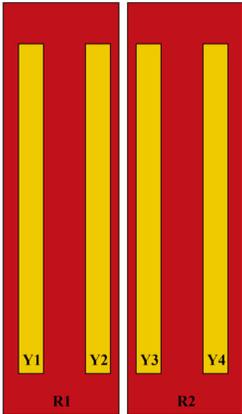
| | |
|---|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10-30 Vdc |
| Internal RET | Low band (2) Mid band (4) |
| Power Consumption, active state, maximum | 8 W |
| Power Consumption, idle state, maximum | 1 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

Dimensions

FFV4-65A-R6

| | |
|---------------------------------|---------------------|
| Width | 498 mm 19.606 in |
| Depth | 197 mm 7.756 in |
| Length | 1499 mm 59.016 in |
| Net Weight, antenna only | 28.6 kg 63.052 lb |

Array Layout

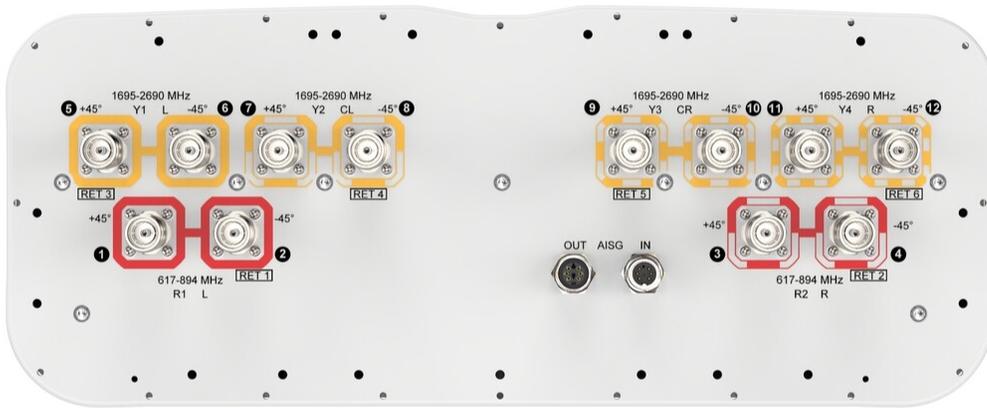


| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|---------------|----------|----------------------|
| R1 | 617-894 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxxxR1 |
| R2 | 617-894 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxxxxxR2 |
| Y1 | 1695-2690 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxxxxxY1 |
| Y2 | 1695-2690 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxxxxxxY2 |
| Y3 | 1695-2690 | 9 - 10 | 5 | AISG1 | CPxxxxxxxxxxxxxxxxY3 |
| Y4 | 1695-2690 | 11 - 12 | 6 | AISG1 | CPxxxxxxxxxxxxxxxxY4 |

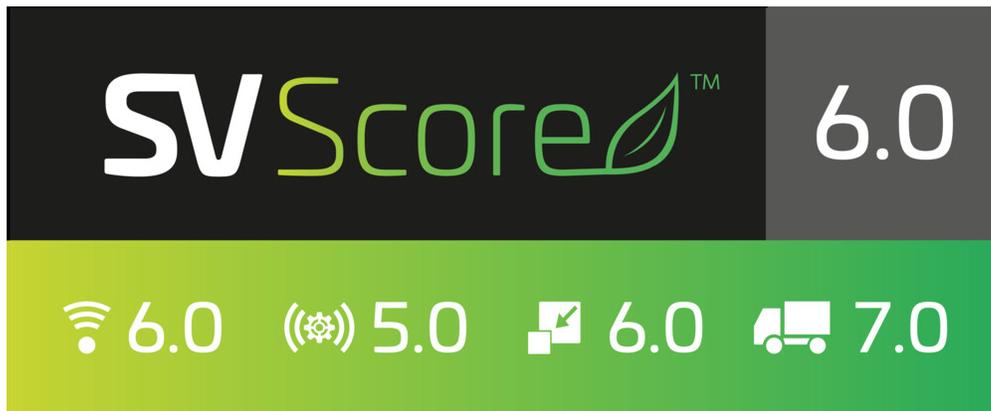
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

FFV4-65A-R6



Logo Image



Electrical Specifications

FFV4-65A-R6

| | |
|-----------------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1695 – 2690 MHz 617 – 894 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 1,400 W @ 50 °C |

Electrical Specifications

| | R1,R2 | R1,R2 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 |
|---|----------------|----------------|------------------|------------------|------------------|------------------|------------------|
| Frequency Band, MHz | 617–698 | 698–894 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2500 | 2500–2690 |
| RF Port | 1-4 | 1-4 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 |
| Gain, dBi | 12.7 | 13.5 | 16.6 | 16.9 | 17.3 | 17.5 | 17.7 |
| Beamwidth, Horizontal, degrees | 70 | 59 | 64 | 65 | 61 | 60 | 55 |
| Beamwidth, Vertical, degrees | 18.1 | 15.3 | 6.6 | 6.2 | 5.9 | 5.3 | 5.1 |
| Beam Tilt, degrees | 4–18 | 4–18 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 18 | 18 | 16 | 18 | 18 | 19 | 17 |
| Front-to-Back Ratio at 180°, dB | 30 | 30 | 32 | 33 | 33 | 30 | 28 |
| Front-to-Back Total Power at 180° ± 30°, dB | 21 | 22 | 24 | 25 | 25 | 24 | 22 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port at 50°C, maximum, watts | 250 | 250 | 200 | 200 | 200 | 200 | 200 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 583.0 N @ 150 km/h (131.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 188.0 N @ 150 km/h (42.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 818.0 N @ 150 km/h (183.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 462.0 N @ 150 km/h (103.9 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|----------------------|--------------------|
| Width, packed | 565 mm 22.244 in |
|----------------------|--------------------|

FFV4-65A-R6

| | |
|-----------------------|---------------------|
| Depth, packed | 309 mm 12.165 in |
| Length, packed | 1686 mm 66.378 in |
| Weight, gross | 41.5 kg 91.492 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

- BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance