

INSTALLING Reliability



**HIGH POWER AMPLIFIER** 

400 W EXTENDED KU-BAND INDOOR HPA 4412AU WITH BUILT-IN BUC

ND SATCOM has been a supplier to the SatCom industry for over three decades and has an excellent reputation for consistently developing high-end satellite communications products at competitive prices for customers in more than 130 countries worldwide. Our team of dedicated engineers works closely with customers around the world to develop, tailor and adapt our product portfolio to deliver innovative broadcast and network solutions that fit evolving market requirements with superior reliability and quality.

As a system integrator for global broadcasters and armed forces, we design both indoor and outdoor HPAs whose modular design is compact, reliable, service-friendly and powerful. Our products are designed to adapt to your operational needs, providing highly secure, customised solutions that have established us as a trusted and reliable partner in satellite communications.

## OPTIONS

- Integrated Linearizer
- Waveguide Switching System
- Redundancy Control Unit (RCU) or M&C System

## BENEFITS

User Interface

Intuitive touch screen and WebUI with amplifier and system level control functions, exportable log and measurement data files

- Unrivalled and improved RF performance
- High quality BUC from WORK Microwave
  Efficient and reliable

Extremly efficient power supply saves power cost, increases MTBF and significantly reduces fan noise in your shelter racks

- Safe and durable High voltage section is potted and all other electrical components are coated to protect against humidity and dust
- Compact Light weight and small dimensions
- Easy to maintain All RF parameters can be monitored and controlled directly or remotely
- Made in Germany
   EUR1 certificate/no ITAR restrictions
- Backwards compatible to HPA 3412AU/AUL



## **TECHNICAL SPECIFICATIONS - HPA 4412AU**

50 W, >55.4 dBm 1: 13.75 – 14.5 GHz, LO 15.45 GHz, RF in: 950 2: 12.75 – 13.25 GHz, LO 14.9 GHz, RF in: 1,6 1/Ku2 configurable, single up-conversion, invo 0 W Tube 5 dB 2 dB – 20 dB, min. step size 0.1 dB 0.25 dB/°C/24 hrs after 30 min warm-up .02 dB/MHz 0 dB/in any 80 MHz, <2.5 dB/in any 500 MHz 3:1 Input, <1.2:1 Output (waveguide) .01 ns/MHz linear, <0.005 ns/MHz <sup>2</sup> parabolic, <b>thout Linearizer 4412AU</b> 22 dBc at 6 dB below rated power 24 dBc at 7 dB below rated power,	50 – 2,150 MHz erting, internal reference z, <4.5 dB/full band
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24 dBc at 7 dB below rated power	
·	(meets ASTRA access agreement 6.4.2
.5°/dB at 7 dB below rated power,	
.5°/dB at 7 dB below rated power,	for FSS Band with rated power -2 dB)
%dB at rated output power	<2.5°/dB at 4 dB below rated power
5 dB	
ets IESS 308/309	
65 dBW/4 kHz (inband), <-120 dBW/4 kHz (10.	7 – 12.2 GHz),
00 dBW/4 kHz (12.2 – 12.5 GHz), <-115 dBW/	4 kHz (18.0 – 19.0 GHz)
30 dBc at rated output	
IA Input/N-Jack Testport	
R 75 Waveguide Output, grooved, UNC 6/3	
0 x 483 x 133 mm (3RU)	
6 kg/57 lbs	
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0	8 particular 2 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =
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	Command State 70 Wild Etherner Server
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	bin D female RS232/RS422/RS485 45, 10/100 Ethernet, IPv4 for WebUI and M&C -pin D female Introl range and activation of gain adjustment figurable via M&C/WebUI NS 0 to 260 V AC/47 - 63 Hz, single phase 5 % 250 W 10 % 14/53/EU RED, 2014/30/EU EMC, 2011/65, 14/35/EU LV and 1907/2006/EC Reach CATIONS 0 °C to +50 °C 5 %, non-condensing at 40 °C r normal commercial transport 5 dBA measured in 1 m distance MIDDLE EAST Beijing) Co. Ltd. ND SatCom FZE

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