### Data sheet





# Single-band amplifier

for mobile signals

## art. 39-514H T-AMP 1800/2600 20dBm















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If you want to spread the signal inside a very large building, you can connect to the amplifier a splitter with a number of outputs equal to the number of indoor antennas that you need to instal to reach the desired signal coverage.

Amplifier ideal for the amplification of the mobile phone signal in band 3 (1800 MHz) and in band 7 (2600 MHz) inside public or private buildings (e.g. houses, restaurants, offices, shops, etc.), where signals are weak

Item         T-AMP 1800/2600 20dBm           Bands name         Band 3         Band 7           Bands         MHz         1800 MHz         2600 MHz           Uplink frequencies         MHz         1715 ÷ 1785         2510 ÷ 2570           Downlink frequencies         MHz         1810 ÷ 1880         2630 ÷ 2690           Bandwidth         MHz         75         60           Max gain         dB         Uplink: ≥65 / Downlink: ≥70           Max output power         dBm         Uplink: ≥65 / Downlink: ≥20           Coverage area         m²         500 ÷ 2000           AGC control range         dB         ≥25           Manual gain adjustment         dB         31 (1 dB per time)           Max input power         dBm         -25           Impedance         Ω         50           Noise figure         dB         ≤6           Group delay time         μs         ≤1           VSWR         dB         ≤2           Spurious emissions 9 kHz - 1 GHz         ≤-36 dBm           Spurious emissions 1 GHz - 12.75 GHz         ≤-30 dBm           Consumption         W         12           Connectors         female N type           Operating temper	Code		39-514H		
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Bandwidth         MHz         75         60           Max gain         dB         Uplink: ≥65 / Downlink: ≥70           Max output power         dBm         Uplink: ≥15 / Downlink: ≥20           Coverage area         m²         500 ÷ 2000           AGC control range         dB         ≥25           Manual gain adjustment         dB         31 (1 dB per time)           Max input power         dBm         -25           Impedance         Ω         50           Noise figure         dB         ≤6           Group delay time         μs         ≤1           VSWR         dB         ≤2           Spurious emissions 9 kHz - 1 GHz         ≤-36 dBm           Spurious emissions 1 GHz - 12.75 GHz         ≤-30 dBm           Consumption         W         12           Connectors         female N type           Operating temperature         °C         -10 + +50           Environmental conditions         IP40           Wall fixing accessory         included           Dimensions (LxWxH)         mm         250x170x65           Weight         Kg         4,0           Packaging dimensions (LxWxH)         mm         300x285x100           Pac	Uplink frequencies	MHz	1715 ÷ 1785	2510 ÷ 2570	
Max gaindBUplink: ≥65 / Downlink: ≥70Max output powerdBmUplink: ≥15 / Downlink: ≥20Coverage aream²500 ÷ 2000AGC control rangedB≥25Manual gain adjustmentdB31 (1 dB per time)Max input powerdBm-25ImpedanceΩ50Noise figuredB≤6Group delay timeμs≤1VSWRdB≤2Spurious emissions 9 kHz - 1 GHz≤-36 dBmSpurious emissions 1 GHz - 12.75 GHz≤-30 dBmConsumptionW12Connectorsfemale N typeOperating temperature°C-10 ÷ +50Environmental conditionsIP40Wall fixing accessoryincludedDimensions (LxWxH)mm250x170x65WeightKg4,0Packaging dimensions (LxWxH)mm300x285x100Packaging weightKg4,0POWER SUPPLYRemote power supplyVdc9Max power consumptionA5AC main tension100-230 V~ 50/60HzIsolation classIIDimensions (LxWxH)mm130x50x35	Downlink frequencies	MHz	1810 ÷ 1880	2630 ÷ 2690	
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AGC control range  AGC control range  Manual gain adjustment  Max input power  Max input p	Max output power	dBm	Uplink: ≥15 / Downlink: ≥20		
Manual gain adjustment       dB       31 (1 dB per time)         Max input power       dBm       -25         Impedance       Ω       50         Noise figure       dB       ≤6         Group delay time       μs       ≤1         VSWR       dB       ≤2         Spurious emissions 9 kHz - 1 GHz       ≤-36 dBm         Spurious emissions 1 GHz - 12.75 GHz       ≤-30 dBm         Consumption       W       12         Connectors       female N type         Operating temperature       °C       -10 ÷ +50         Environmental conditions       IP40         Wall fixing accessory       included         Dimensions (LxWxH)       mm       250x170x65         Weight       Kg       4,0         Packaging dimensions (LxWxH)       mm       300x285x100         Packaging weight       Kg       4,0         POWER SUPPLY       Remote power supply       Vdc       9         Max power consumption       A       5         AC main tension       100-230 V~ 50/60Hz         Isolation class       II         Dimensions (LxWxH)       mm       130x50x35	Coverage area	m²	500 ÷ 2000		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	AGC control range	dB	≥25		
Impedance Ω 50   Noise figure dB ≤6   Group delay time μs ≤1   VSWR dB ≤2   Spurious emissions 9 kHz - 1 GHz ≤-36 dBm   Spurious emissions 1 GHz - 12.75 GHz ≤-30 dBm   Consumption W 12   Connectors female N type   Operating temperature °C -10 ÷ +50   Environmental conditions IP40   Wall fixing accessory included   Dimensions (LxWxH) mm 250x170x65   Weight Kg 4,0   Packaging dimensions (LxWxH) mm 300x285x100   Packaging weight Kg 4,0   POWER SUPPLY Remote power supply Vdc 9   Max power consumption A 5   AC main tension 100-230 V~ 50/60Hz   Isolation class II   Dimensions (LxWxH) mm 130x50x35	Manual gain adjustment	dB	31 (1 dB per time)		
Noise figure  Solvand  Noise figure  Soldand  Solvand  Noise figure  Solvand  Noise figure  Solvand  Noise figure  Soldand  Solvand  Noise figure  Solvand  Noise	Max input power	dBm	-25		
Group delay time µs ≤1  VSWR dB ≤2  Spurious emissions 9 kHz - 1 GHz ≤-36 dBm  Spurious emissions 1 GHz - 12.75 GHz ≤-30 dBm  Consumption W 12  Connectors female N type  Operating temperature °C -10 ÷ +50  Environmental conditions IP40  Wall fixing accessory included  Dimensions (LxWxH) mm 250x170x65  Weight kg 4,0  Packaging dimensions (LxWxH) mm 300x285x100  Packaging weight kg 4,0  POWER SUPPLY  Remote power supply Vdc 9  Max power consumption A 5  AC main tension 100-230 V~ 50/60Hz  Isolation class  Dimensions (LxWxH) mm 130x50x35	Impedance	Ω	50		
VSWR   Spurious emissions 9 kHz - 1 GHz  Spurious emissions 1 GHz - 12.75 GHz  Spurious emissions 1 GHz - 12.75 GHz  Consumption  W  12  Connectors  Spurious emissions 1 GHz - 12.75 GHz  Connectors  Spurious emissions 1 GHz - 12.75 GHz  Square Spurious emissions 1 GHz - 12.75 GHz  Square	Noise figure	dB	≤6		
Spurious emissions 9 kHz - 1 GHz  Spurious emissions 1 GHz - 12.75 GHz  Consumption  W 12  Connectors  female N type  Operating temperature  °C -10 + +50  Environmental conditions  IP40  Wall fixing accessory  Dimensions (LxWxH)  mm 250x170x65  Weight  Kg 4,0  Packaging dimensions (LxWxH)  mm 300x285x100  Packaging weight  Kg 4,0  POWER SUPPLY  Remote power supply  Vdc 9  Max power consumption  A 5  AC main tension  Induced  June 100-230 V~ 50/60Hz  Isolation class  Il  Dimensions (LxWxH)  mm 130x50x35	Group delay time	μs	≤1		
Spurious emissions 1 GHz - 12.75 GHz ≤-30 dBm   Consumption W 12   Connectors female N type   Operating temperature °C -10 ÷ +50   Environmental conditions IP40   Wall fixing accessory included   Dimensions (LxWxH) mm 250x170x65   Weight Kg 4,0   Packaging dimensions (LxWxH) mm 300x285x100   Packaging weight Kg 4,0   POWER SUPPLY Remote power supply Vdc 9   Max power consumption A 5   AC main tension 100-230 V~ 50/60Hz   Isolation class II   Dimensions (LxWxH) mm 130x50x35	VSWR	dB	≤2		
Consumption W 12  Connectors female N type  Operating temperature °C -10 ÷ +50  Environmental conditions IP40  Wall fixing accessory included  Dimensions (LxWxH) mm 250x170x65  Weight Kg 4,0  Packaging dimensions (LxWxH) mm 300x285x100  Packaging weight Kg 4,0  POWER SUPPLY  Remote power supply Vdc 9  Max power consumption A 5  AC main tension 100-230 V~ 50/60Hz  Isolation class II  Dimensions (LxWxH) mm 130x50x35	Spurious emissions 9 kHz - 1 GHz		≤-36 dBm		
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Operating temperature  °C  -10 ÷ +50  Environmental conditions  IP40  Wall fixing accessory  Dimensions (LxWxH)  Mm  250x170x65  Weight  Kg  4,0  Packaging dimensions (LxWxH)  Packaging weight  Rg  4,0  POWER SUPPLY  Remote power supply  Vdc  9  Max power consumption  A  5  AC main tension  Dimensions (LxWxH)  Mm  130x50x35	Consumption	W	12		
Environmental conditions  Environmental conditions  Wall fixing accessory  Dimensions (LxWxH)  Mm  250x170x65  Weight  Kg  4,0  Packaging dimensions (LxWxH)  Packaging weight  Kg  4,0  POWER SUPPLY  Remote power supply  Max power consumption  A  5  AC main tension  LxWxH)  Dimensions (LxWxH)  Mm  Max Dower Supply  Ma	Connectors		female N type		
Wall fixing accessory included  Dimensions (LxWxH) mm 250x170x65  Weight Kg 4,0  Packaging dimensions (LxWxH) mm 300x285x100  Packaging weight Kg 4,0  POWER SUPPLY  Remote power supply Vdc 9  Max power consumption A 5  AC main tension 100-230 V~ 50/60Hz  Isolation class II  Dimensions (LxWxH) mm 130x50x35	Operating temperature	°C	-10 ÷ +50		
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Remote power supply  Max power consumption  A  5  AC main tension  Isolation class  Dimensions (LxWxH)  Isolation tension  II  III  III  III  III  III  III  I	Packaging weight	Kg	4,0		
Max power consumption A 5 AC main tension 100-230 V~ 50/60Hz Isolation class II Dimensions (LxWxH) mm 130x50x35	POWER SUPPLY				
AC main tension 100-230 V~ 50/60Hz Isolation class II Dimensions (LxWxH) mm 130x50x35	Remote power supply	Vdc	9		
Isolation class II Dimensions (LxWxH) mm 130x50x35	Max power consumption	А	5		
Dimensions (LxWxH) mm 130x50x35	AC main tension		100-230 V~ 50/60Hz		
	Isolation class		II		
Weight Kg 0,20	Dimensions (LxWxH)	mm	130x50x35		
	Weight	Kg	0,20		

or absent, provided that a good quality signal is received outside.

Ideal for amplifying the signal in areas up to 500÷2000 m<sup>2</sup>.

\* The coverage area is an indicative data that changes according to various factors and is different in each system.

Offel s.r.l.

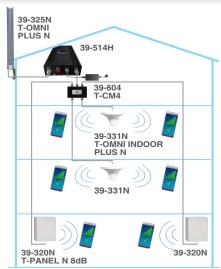
In order to obtain the maximum output power of the amplifier (+20 dBm = 127 dB $\mu$ V), the input signal to the amplifier must be at least -50 dBm  $(57 \text{ dB}\mu\text{V}).$ 

#### **Characteristics**

- Max gain 70 dB with Automatic Gain Adjustment (AGC)
- Detection functions for self-oscillation and overpower
- LED indicators for status, power, alarms
- Compliant to: 2014/53/UE/RED; 2011/65/UE (RoHS) EN 301 489-50 V2.2.1; EN 301 489-1 V2.2.1; EN 301 908-11 V11.1.2; EN 301 908-11 V11.1.1; EN 301 908-15 V11.1.2; EN 303 609 V12.5.1;
- EN 60950-1:2006+A11:2009+A1:2010+A12: 2011+A2:2013; EN 50385:2017

#### **Example of application**





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