

Base Station

	ATF-54143, ATF-541M4	MGA-53543, MGA-53589	ATF-501P8, 50189,511P8,521P8,5 2189,531P8,53189	MGA-631P8,632P8,63 3P8,634P8,635P8,637 P8,638P8	ATF-501P8, ATF-50189	ATF-511P8	MGA-633P8 / 634P8 / 635P8	ALM-38140	MGA-13516, 14516	MGA-14516	AVT -50663,51663,52663, 53664,54689,55689	MGA-61563, 62563	MGA-30489, 30689, 30789, 30889, 30989	MGA-30116, 30216, 30316	MGA-43128, 43228, 43328
Description	0.1-6GHz Discrete LNA (1st Stage)	0.1-6GHz LNA (2nd Stage)	0.1-6GHz Discrete LNA (2nd/3rd Stage)	0.4-4 GHz	0.1-6GHz Discrete LNA (2nd/3rd Stage)	0.1-6GHz Discrete LNA (2nd/3rd Stage)	0GHz LNA	0.05-4 GHz Pin Diode Attenuator	0.4 - 4 GHz LNA (1st / 2nd stage)	1.5-4GHz LNA (1st/2nd Stage)	DC-6GHz	0.1-3 GHz LNA	0.2-6GHz Gain Blocks	0.4-4GHz 0.5W Driver Amplifier	OFDMA Linear Amplifier
Competition	RFMD, Skyworks	RFMD, Skyworks	RFMD, Skyworks	RFMD, Skyworks	RFMD, Skyworks	RFMD, Skyworks	RFMD, Skyworks	Skyworks, Infineon, NXP	RFMD, Skyworks	RFMD, Skyworks	RFMD	Hittite , RFMD	Anadigics, RFMD, Triquint, Hittite, Mimix, MACOM	Anadigics, RFMD, Triquint, MACOM	Micromobio, RFMD, Mitsubishi
Avago Strengths	1. Very low noise figure 2. Very high linearit (OIP3) 3. Works from 50MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through external matching	1. Very high linearity at low DC bias power (L) 2. Low noise figure 3. High OIP3 4. Advanced e-PHEMT Technology 5. Excellent uniformity in product specification 6. SOT-89 standard package	1. Very low noise figure 2. Very high linearity (OIP3) 3. Works from 50MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through external matching 7. SOT-89 standard package	1. Low noise figure 2. Very high linearity (OIP3) and high output power (P1dB) 3. Works from 50MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through external matching 7. SOT-89 standard package	1. Low noise figure 2. Very high linearity (OIP3) and high output power (P1dB) 3. Works from 50MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through external matching 7. SOT-89 standard package	1. Low noise figure 2. Very high linearity (OIP3) and high output power (P1dB) 3. Works from 5MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through external matching	1. Best in class ultra low NF performance, together with high OIP3 2. Common high gain for major cellular frequency band across 700MHz-2600MHz ideal for BTS with common platform design 3. Smart bias feature offers flexibility in linearity performance adjustment through current adjustment	1. Fully integrated module with high dynamic range using PIN diodes. 2. Low phase shift and high input P1dB suitable for base station radio cards	1. Very low noise figure, high gain, and high linearity at very low current consumption which helps improve the sensitivity of cellular and WiMAX base station receivers 2. Built in active bias circuit and minimal matching components which simplifies customer's product design and shorten their products' time to market 3. A two stage LNA is ideal for the first and second stage of LNA in base station receivers 4. Housed in a miniature 4.0 x 4.0 x 0.85mm 16-pin Quad-Flat-Non-Lead (QFN) package allowing customers to design compact base station products such as pico or femto base station receivers	1. Very low noise figure, high gain, and high linearity at very low current consumption which helps improve the sensitivity of Cellular and WiMAX base station receivers 2. Built in active bias circuit and minimal matching components which simplifies customer's product design and shorten their products' time to market 3. A two stage LNA is ideal for the first and second stage of LNA in base station receivers 4. Housed in a miniature 4.0 x 4.0 x 0.85mm 16-pin Quad-Flat-Non-Lead (QFN) package allowing customers to design compact base station products such as pico or femto base station receivers	1. InGaP HBT Broad Band gain block series housed in industrial standard SOT-89 and SC70 package (Pin to pin compatible with competitor solution) 2. High gain, high linearity performance, with high ESD protection 3. Devices is extremely easy to use 4. Broad-band flat gain performance, and high/mid gain option is available through AVT-5x663	1. Very low noise figure 2. Very high linearity (OIP3) 3. Works from 5MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through an external bias resistor	1. High linearity gain block series housed in industrial standard SOT-89 package 2. Excellent linearity performance and low current consumption 3. Broadband 50ohm fully matched or pre-matched and broad-band flat gain performance with and high gain option	1. Best output power (OIP3) at low power consumption	1. 29dBm linear PA module with high gain, high linear pout and great PAE 2. Friendly design application achieved through input fully match and output pre-match 3. Integrated power detector and switch controlled attenuator 4. Housed in a small QFN 5mmx5mm package vs competing solution

Additional wireless products are available. See [avagotechwireless.com](http://avagotechwireless.com)

GPS LNA

	ALM-1412	ALM-1612, 1912	ALM-1712, 1812, 2712	ALM-3012
Product Description	LNA+Filter module	LNA+Filter module (Hi Gain)	Filter+LNA+Filter module	LNA + Filter module
Competition	RFMD	RFMD	Triquint, Infineon	RFMD
Avago Strengths	1. Very low noise figure and high linearity improve GPS receiver's sensitivity 2. FBAR filter with exceptional rejection at Cell/PCS-band improves GPS performance for S-GPS handset 3. Built-in shunt inductor enhances ESD protection 4. Miniature package size helps reduce board space and component counts	1. Very low noise figure and high linearity improve GPS receiver's sensitivity 2. . FBAR filter with exceptional rejection at Cell/PCS-band improves GPS performance for S-GPS handset 3. Built-in shunt inductor enhances ESD protection 4. Miniature package size helps reduce board space and component counts	1. Very low noise figure and high linearity improve GPS receiver's sensitivity 2. FBAR filters with exceptional rejection at Cell/PCS-band improves GPS performance for S-GPS handset 3. Built-in shunt inductor enhances ESD protection 4. Miniature package size helps reduce board space and component counts	1. Very low noise figure and high linearity improve both GPS and GLONASS sensitivity 2. FBAR filters with exceptional rejection at Cell/PCS-band improves GPS performance for S-GPS handset 3. Built-in shunt inductor enhances ESD protection

WiFi/WiMAX

	ATF-55143, ATF-551M4	MGA-645T6, 64606	MGA-655T6, 65606	MGA-675T6	AFEM-S257
Product Description	0.1-6GHz Discrete LNA	2.3-2.7GHz WiFi/ WiMAX LNA with bypass	3.3-3.8GHz WiMAX LNA with bypass	5-6GHz WiFi/ WiMAX LNA	2.5-2.7 GHz Front End Module
Competition	NEC, Skyworks	NJRC	NJRC	Triquint, Hittite	RFMD, Skyworks
Avago Strengths	1. Very low noise figure 2. Very high linearity (OIP3) 3. Works from 50MHz to 6GHz frequency range 4. Excellent uniformity in product specification 5. Advanced e-PHEMT Technology 6. Adjustable bias current through external matching	1. Low noise figure 2. High linearity 3. Bypass switch 4. Built-in self bias 5. Adjustable gain	1. Low noise figure 2. High linearity 3. Bypass switch 4. Built-in self bias 5. Adjustable gain	1. Low noise figure 2. High linearity 3. Bypass switch 4. Built-in self bias 5. Adjustable gain	1. Using GaAS pHEMT and FBAR technology, this module produces flat gain and good match while providing linear power efficiency 2. Provide excellent filtering on other band WiFi and ISM.

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