



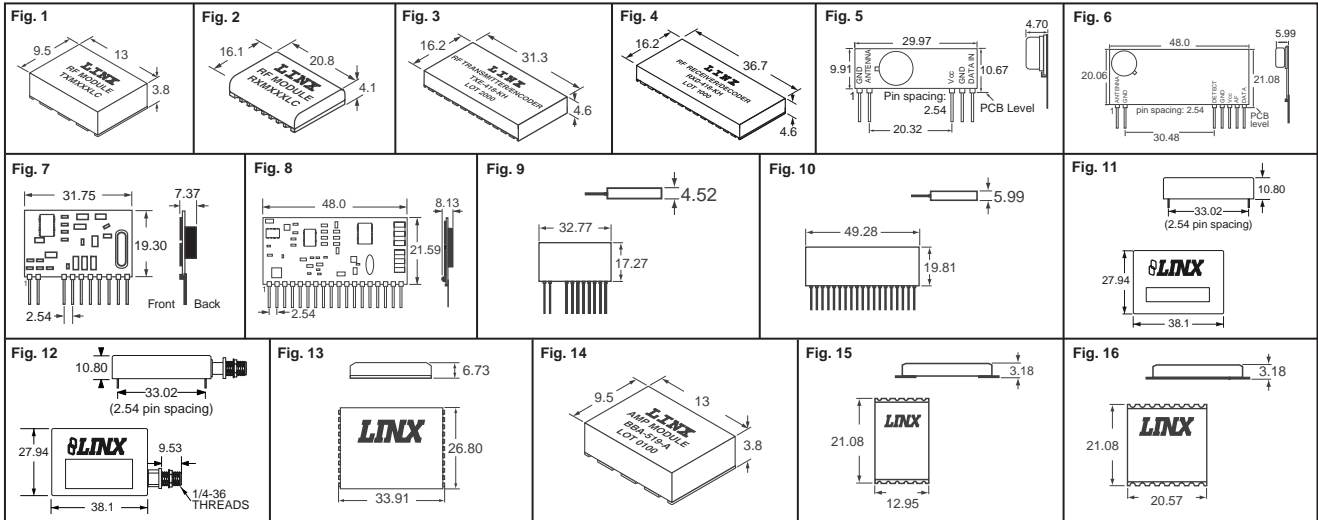
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# RF Modules / Broadband Amplifiers / Evaluation Kits



**LC Series - Ultra-Compact Low-Cost RF TX/RX Modules:** Operating in the 260-470 MHz band, these tiny RF modules provide a complete and cost-effective solution for the wireless transfer of serial control, and command information over distances in excess of 300 feet. **Transmitter:** • 2.7 - 5.2 VDC range • 1.5 mA avg. • +3 dbm output • 5Kbps max. data rate • Low harmonics • Compact hand or auto place SMD package. **Receiver:** • 2.7 - 5.2 VDC range • Low power consumption, (6mA operational, 300µA sleep) • -97 typical sensitivity @10-5 • 5Kbps max. data rate • Balanced LO for easy certification • Compact hand or auto place SMD package.

**KH Series - Transmitter And Receiver Featuring Integrated Encoder/Decoders:** Housed in a compact SMD package the KH series combines the popular LC TX/RX with an integrated encoder/decoder pair. The encoder module accepts up to eight parallel inputs. This allows the direct connection of switches or a microcontroller. KH decoder module provides eight switched outputs and nine address lines which correspond to transmitters pin state.

**RM Series:** Provides a complete TX/RX solution in a compact SIP style module. The RM series utilizes an advanced SAW based design and FM/FSK modulation and operates in the 260-470 band. **Transmitter:** • 5.9 - 9.0VDC range • 6.0mA avg. • +3 dbm output • 10,000Kbps max. data rate • SIP package. **RM Receiver:** • 4.0 - 9.0VDC range • 14mA avg. • -103 typical sensitivity • 10,000Kbps max. data rate • SIP package.

**HP-II & 3 Series- High-Performance, Low-Cost, RF TX/RX Modules:** These modules are designed for the popular 902-928MHz band. The modules offer 8 or 256 selectable channels and are capable of transmitting analog and digital information for distances of p to 1000 ft. (under optimal conditions). Available in SIP or SMI packages. **Transmitter:** • Eight-parallel selectable channels on PO series and 8 parallel, 120 serial on PS series • Synthesized architecture • 2.7-13VDC supply range • Low power (15mA average current) • 0dbm output power • 50Kbps maximum data rate • 100Hz to 25KHz analog bandwidth • CTS • Powerdown control • Compact SIP package. **Receiver:** • Eight-parallel selectable channels on PO series and 8 parallel, 120 serial on PS series • Synthesized architecture • 2.7-18VDC supply range • Low power (18mA average current; 50µA powerdown) • 50Kbps maximum data rate • 50Hz-25KHz analog bandwidth • RSSI output • Powerdown control • Compact

**SC/PA Series - High-Performance, Low-Cost RF Transceiver:** Linx transceiver modules are designed for the cost-effective, bi-directional transfer of wireless information. **SC Transceiver:** • Surface mount or thru-hole • Synthesized architecture • 2.7-16VDC supply range • Low power (15mA Avg.) • Adjustable output power • UART compatible • 33.6Kbps max. data rate • 100Hz to 25KHz analog bandwidth • Integral antenna switch • Powerdown control. **SC-PA Version Adds:** • Integrated RP-SMA antenna connection • FCC approved to eliminate additional testing (when used with approved antennas).

**BBA Series - Broadband RF Amplifiers:** These amplifiers are well suited to a wide range of amplification and buffering applications including extending the range of Linx's own RF modules (when legally appropriate). Housed in a compact SMD package, the hybrid amps are prematched to 50Ω and require no external RF components.

**BBA-322:** • High gain model • 10MHz-30Hz broadband operation • +20dB Small Signal gain @ 900MHz • Up to +10 (10mW) Linear output power • 3.8dB noise figure • Operates from a single supply. **BBA-519:** • High output model • 10MHz-4GHz broadband operation • +18dB Small Signal gain @ 900MHz • Up to +17 (50mW) linear output power • 4.8dB noise figure • Operates from a single supply

**ES Series:** Housed in a tiny SMD package, the ES Series utilizes an advanced FM/FSK-based synthesized architecture to provide superior performance and noise immunity when compared to AM/OOK solutions. An outstanding 56Kbps maximum data rate and wide-range analog capability make the ES Series equally at home with digital data or analog sources such as audio. A host of useful features including RSSI, PDN, audio reference, LVL ADJ, low-voltage detect, and a microprocessor clock source are provided. Operates at 916.48MHz which in North America allows an unlimited variety of applications including data links, audio links, process and status control, home and industrial automation, security, remote control/command, and monitoring. Like all Linx modules, the ES Series requires no tuning or external RF components (except an antenna). Audio 20Hz-28KHz, very low current for long life in battery applications. **Transmitter:** • Supply Voltage: 2.1-4V • Current: 6.5-7.5mA • 0dbm output power • Sleep: 90µA. **Receiver:** • Supply Voltage: 4.5-5.5V • Current: 5.5-6.5mA • Sleep: 50µA

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each			Linx Part No.
				1	25	100	
<b>LC Series</b>							
1	Transmitter	315	TXM-315-LC-ND	6.90	6.31	5.60	TXM-315-LC
		418	TXM-418-LC-ND	6.90	6.31	5.60	TXM-418-LC
		433	TXM-433-LC-ND	6.90	6.31	5.60	TXM-433-LC
2	Receiver	315	RXM-315-LC-S-ND	13.79	12.61	11.25	RXM-315-LC-S
		418	RXM-418-LC-S-ND	13.79	12.61	11.25	RXM-418-LC-S
		433	RXM-433-LC-S-ND	13.79	12.61	11.25	RXM-433-LC-S
<b>KH Series</b>							
3	Transmitter	315	TXE-315-KH-ND	9.98	9.12	7.80	TXE-315-KH
		418	TXE-418-KH-ND	9.98	9.12	7.80	TXE-418-KH
		433	TXE-433-KH-ND	9.98	9.12	7.80	TXE-433-KH
4	Receiver	315	RXD-315-KH-ND	15.93	14.56	12.75	RXD-315-KH
		418	RXD-418-KH-ND	15.93	14.56	12.75	RXD-418-KH
		433	RXD-433-KH-ND	15.93	14.56	12.75	RXD-433-KH
<b>RM Series</b>							
5	Transmitter	418	TXM-418-RM-ND	22.45	20.53	16.21	TXM-418-RM
		433	TXM-433-RM-ND	22.45	20.53	16.21	TXM-433-RM
6	Receiver	418	RXM-418-RM-ND	36.66	33.52	28.31	RXM-418-RM
		433	RXM-433-RM-ND	36.66	33.52	28.31	RXM-433-RM
<b>HP/II Series</b>							
7	Transmitter 8 Channel	900	TXM-900-HP-II-ND	31.29	28.61	23.81	TXM-900-HP-II
		900	RXM-900-HP-II-ND	46.90	42.88	34.88	RXM-900-HP-II
<b>HP3 Series</b>							
9	Transmitter 8 Channel	900	TXM-900-HP3-PPO-ND	29.45	26.93	22.32	TXM-900-HP3-PPO
		900	TXM-900-HP3-PPS-ND	30.33	27.73	23.27	TXM-900-HP3-PPS
10	Receiver 8 Channel	900	RXM-900-HP3-PPO-ND	45.15	41.28	33.96	RXM-900-HP3-PPO
		900	RXM-900-HP3-PPS-ND	46.03	42.08	34.84	RXM-900-HP3-PPS
<b>SC/SC-PA Series</b>							
11	SC Transceiver	916	TR-916-SC-P-ND	44.80	40.96	39.61	TR-916-SC-P
12	FCC Precertified Transceiver	916	TR-916-SC-PA-ND	48.30	46.92	46.31	TR-916-SC-PA
13	RF Transceiver	916	TR-916-SC-S-ND	42.88	39.20	38.41	TR-916-SC-S
<b>BBA Series</b>							
14	High-Gain Broadband RF Amp.	10-3,000	BBA-322-A-ND	14.80	14.06	13.50	BBA-322-A
		10-4,000	BBA-519-A-ND	15.00	14.25	13.95	BBA-519-A
<b>ES Series</b>							
15	Transmitter	916	TXM-916-ES-ND	13.84	12.66	10.87	TXM-916-ES
16	Receiver	916	RXM-916-ES-ND	18.48	16.90	13.95	RXM-916-ES

## Evaluation Kits

These kits provide the most complete opportunity to evaluate the Linx module series of your choice and then begin the integration of it into your own design.

### Basic Evaluation Kit:

This kit is a quick way to evaluate the field performance of Linx products. The kit does not allow for the level of testing and interface possible with Master Kits but provides a cost-effective starting point.

**Basic Kits Contain:** • 2 Transmitter Modules & 2 Receiver Modules (or 2 Transceiver Modules) • 2 Antennas • 2 Fully Assembled Evaluation Boards w/batteries • Manuals • Part 2 • Part 15 Guidelines

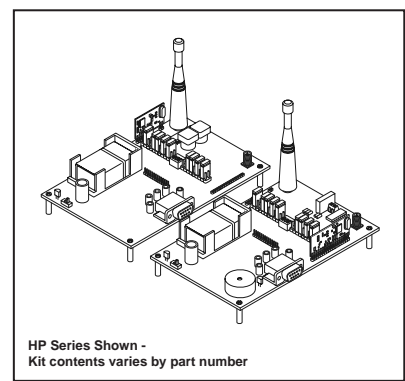
**EVAL-418-KEY5-ND:** • 1 Antenna • 2 Keyfobs • 1 Evaluation Board • 2 KH Rec. Modules w/batteries • Manuals • Part 2 • Part 15 Guidelines

### Master Evaluation/Development System:

The kits not only allow evaluation of the module series you have chosen, but also speeds the development of your own design via on-board prototyping area and breakout headers.

**Master Kits Contain:** • 2 Transmitter Modules & 2 Receiver Modules • 2 Antennas • 2 9-Volt Batteries • 2 Fully Assembled Evaluation Boards • Manuals and FCC Guidelines

Description	MHz	Digi-Key Part No.	Price Each	Linx Part No.
<b>Basic Evaluation Kits</b>				
LC Series	315	EVAL-315-LC-S-ND	139.00	EVAL-315-LC
	418	EVAL-418-LC-S-ND	139.00	EVAL-418-LC-S
	433	EVAL-433-LC-S-ND	139.00	EVAL-433-LC-S
SC Series	916	EVAL-916-SC-P-ND	198.54	EVAL-916-SC
SC-PA Series	916	EVAL-916-SC-PA-ND	198.54	EVAL-916-SC-PA
KH Series	315	EVAL-315-KH-ND	149.00	EVAL-315-KH
	418	EVAL-418-KH-ND	149.00	EVAL-418-KH
	433	EVAL-433-KH-ND	149.00	EVAL-433-KH
ES Series	916	EVAL-916-ES-ND	183.66	EVAL-916-ES
Keyfob Series	418	EVAL-418-KEY5-ND	113.01	EVAL-418-KEY5
HHCP Series	418	EVAL-418-CP-ND	129.00	EVAL-418-CP
HHLR Series	418	EVAL-418-HHLR-ND	129.00	EVAL-418-HHLR
<b>Master Evaluation Kits</b>				
RM Series	418	MDEV-418-RM-ND	249.00	MDEV-418-RM
	433	MDEV-433-RM-ND	249.00	MDEV-433-RM
HP-3 Series	900	MDEV900HP3PPSR23-ND	299.00	MDEV-900-HP3-PPS-R232
ES Series	916	MDEV-916-ES-ND	299.57	MDEV-916-ES
SC-P Series	916	MDEV-916-SC-P-ND	299.57	MDEV-916-SC-P
SC-S Series	916	MDEV-916-SC-S-ND	299.57	MDEV-916-SC-S



HP Series Shown - Kit contents varies by part number