



Product Features

- Mix amplifier types in a single remote housing
- Radio access technology agnostic
- Multi-operator
- WDM, CWDM and non-multiplexed options
- True receive diversity and MIMO options
- Completely software monitored and controlled
- Wide band amplification
- External DB-9 alarm connection
- RoHS compliant

Bird remote units are high performing, wideband amplifiers. An industry leader in DAS solutions, the Bird fiber optic system allows controlling a mixture of remote families (DDR and DDH) from a single Master Unit to reduce the head end footprint and maximize usage of the fiber backbone infrastructure. Multiple frequency bands and amplifiers can be contained in a single chassis.

General Specifications

Noise Figure - Typical	3 dB
Hardware delay	< 0.5 μ s
Power Supply - Standard	85 – 265 VAC
Power Supply - Optional	-48 VDC
Operating Temperature	-13 to +131 °F -25 - +55 °C
Housing	IP65 Standard (NEMA4 optional)

	DDR	DDH
One Band		
Size inches	11.8x5.1x27.6	11.8x5.1x27.6
Size mm	300x130x700	300x130x700
Estimated Weight (Lbs/Kg)	34/15.2	34/15.2
Power Consumption - W (Typical)	90	210
Two Band		
Size inches	11.8x5.1x27.6	11.8x8.6x27.6
Size mm	300x130x700	300x220x700
Estimated Weight (Lbs/Kg)	34/15.2	60/27.2
Power Consumption - W (Typical)	180	420
Three Band		
Size inches	11.8x8.6x27.6	-
Size mm	300x220x700	-
Estimated Weight (Lbs/Kg)	60/27.2	-
Power Consumption - W (Typical)	270	-
Four Band		
Size inches	11.8x8.6x27.6	-
Size mm	300x220x700	-
Estimated Weight (Lbs/Kg)	60/27.2	-
Power Consumption - W (Typical)	360	-

Remote Units

DDR, DDH Series

Frequency Bands - FCC/IC Compliance

BAND	3GPP BAND	UPLINK	DOWNLINK	Max Composite (dBm)	
				DDR	DDH
VHF*		150-174	150-174	33	-
UHF*		450-512	450-512	33	-
LTE700 ABC	12	698-716	728-746	33	-
LTE700 UpperC	13	776-787	746-757	33	-
LTE700 Full	12/13	698-716 776-787	728-757	33	-
PS 700		793-805	763-775	33	-
800 SMR IDEN	27	806-824	851-869	33	40
850 CELLULAR	5	824-849	869-894	33	43
PCS 1900	25/2	1850-1915	1930-1995	33	43
AWS-3 2100	4, 10	1710-1780	2110-2180	33	43
LTE 2600	7	2500-2570	2620-2690	33	43

*External duplexer may be required.

Frequency Bands - 3GPP/ETSI Compliance

BAND	3GPP BAND	UPLINK	DOWNLINK	Max Composite (dBm)	
				DDR	DDH
FM		-	88-108	22	-
TETRA VHF		136-174	136-174	22	-
TETRA, Public Safety		380-385	390-395	26	33
TETRA, Commercial		410-415	420-425	26	-
TETRA, Commercial		415-420	425-430	26	-
700 APT	28	703-748	758-803	26	-
DD800		832-862	791-821	26	40
GSM-R 900		876-880	921-925	26	40
E-GSM 900	8	880-915	925-960	26	40
GSM1800	3	1710-1785	1805-1880	28	40
UMTS 2100	1	1920-1980	2110-2170	30	43
LTE 2600	7	2500-2570*	2620-2690*	30	43

*Options for enhanced duplexers available when co-located with TDD systems.

