Table 18. Communication architecture functional characteristic tradeoffs.

Communication Architecture	Frequency	Lease or License	Data Rates	User-Defined Format	Error-Detection Recovery
LPHAR	AM transmission band	N/A	N/A	N/A	No
AHAR	Lower Land/Mobile bands	License	up to 9.6 kbps	Yes	No
HAR	AM transmission sideband	License	N/A	N/A	No
RBDS/SCA	RM transmission sideband	Lease	up to 1200 bps	No	Yes
SAP	TV transmission sideband	Lease	up to 19.2 kbps	Yes	Yes
T-net	up to 900 MHz	Lease	up to 16 kbps	Yes	Unknown
220 - 222 MHz Band	220 - 222 MHz	License	6075 bps	Yes	User Defined
Analog Cellular	824.04 - 848.97 MHz 869.04 - 983.97 MHz	Lease	up to 4800 bps	Yes	No
Iridium - Voice	1.8 - 2.2 GHz	Lease	up to 4800 bps	N/A	Yes
Iridium - Data	1.8 - 2.2 GHz	Lease	up to 2400 bps	Yes	Yes
Impulse	1.0 - 2.0 GHz	TBD	up to 1 Gbps	Yes	No
Packet-Data WAN	Higher Land/Mobile bands	Lease	up to 19.2 kbps	Yes	Unknown
Trunk Radio	403 - 512 MHz 806 - 870 MHz	Lease/License	up to 9.6 kbps	Yes	Yes (data only)
Shared Channel	29.7 to 50 MHz 66 - 88 MHz 150 - 174 MHz 403 - 512 MHz 806 - 870 MHz 900 MHz	Lease/License	up to 9.6 kbps	Yes	Yes (data only)
Microwave	4, 6, 10, 11, 12, 13, 18, 23, and 28 GHz	Lease/License	up to 44.736 Mbps	Yes	Yes