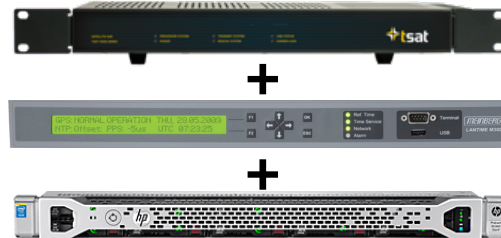


TSAT 4000 HUB



Network configuration

Network Topology:	Star (DVB-S2 forward link and RCS2 return links)	
Modulation Forward link:	QPSK, 8PSK, 16APSK, 32APSK	
Modulation Return link:	BPSK, QPSK, 8PSK, 16QAM	
Maximum supported channel symbol rates:	Forward link	Return link(s) *
FEC:	96ksps - 45Msps	64ksps - 4Msps
	1/4 - 9/10	1/3 - 6/7

Interface

Satcom interfaces:	TX/RX N type - Female, 950 -2150MHz 10 MHz IFL BUC reference
Available BUC power (IFL):	+24VDC, Supporting BUC's up to 3W
Available LNB power (IFL)	+18VDC
Data interfaces:	LAN, RJ45 10/100 Ethernet,
Protocols support:	IPv4 and IPv6 - TCP and UDP based protocols
Security:	AES-256 link encryption (optional)
Link access schemes:	Static, Dynamic (Random and Demand based)

Environmental

Mechanical:	Size 1U for 19" rack mounting
Operating temperature:	0° to 50° C
Humidity:	5 to 95% non-condensing
Input voltage	24VDC and 100-240VAC single phase, 50-60Hz
Design standard:	EN-301-428v1.3.1 Ku-Band System Level Specifications

*If number of return links exceed the capability of a single server blade, the capacity is increased by adding additional server[s].