C-17

MEO/GEO SATCOM solution

R4 Integration, Inc. has teamed up with industry leaders GetSAT and SES to develop a revolutionary SATCOM solution for Boeing C-17 aircraft.

O3b mPOWER delivers ironclad and secure connectivity with it's next-generation MEO satellite constellation. It supports high throughput per terminal, predictable low latency and high network availability.

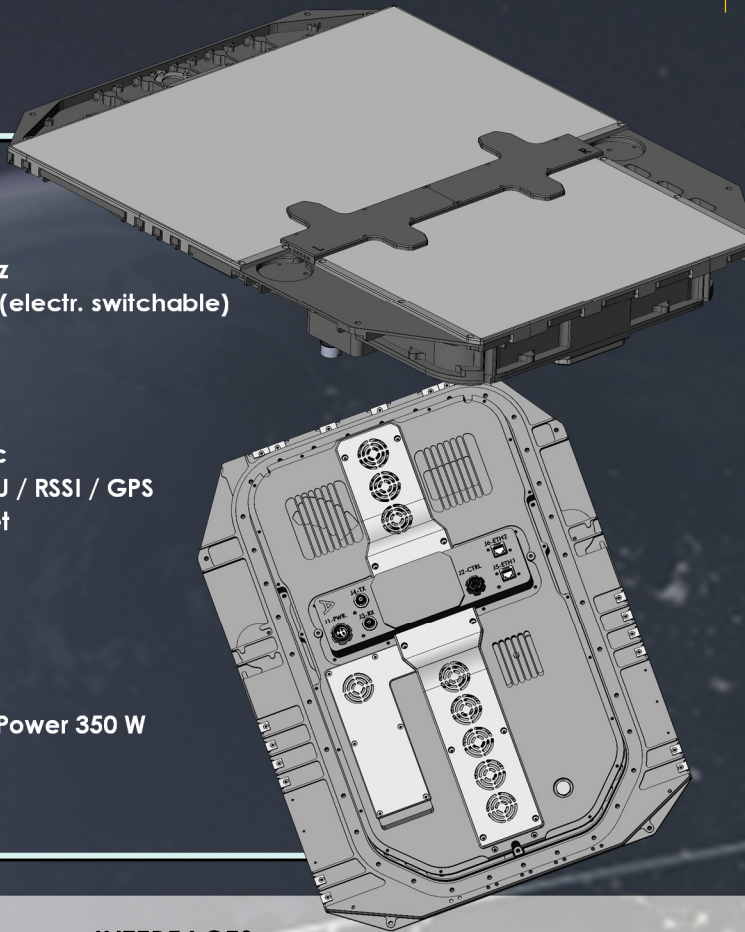The innovation driving unparalleled flexibility, performance, and scale . . .

O3b mPOWER

MICRO SLINGBLADE KA SPECS

RF PERFORMANCE

ANTENNA TX Frequency	27.5 - 31GHz
ANTENNA RX Frequency	17.7 – 21.2 GHz
Polarization	LHCP or RHCP (electr. switchable)
Max EIRP	49 dBW
Max G/T	10.5 dB/K

SYSTEM

Azimuth/Elevation	Fully Electronic
Control Technique	Combined IMU / RSSI / GPS
Control Interface	RS232, Ethernet
Tracking Speed	200°/second
Pointing Accuracy	0.3°
Initial Acquisition	<5 sec
Initial Acquisition (fr. power on)	<60 sec
Operation Voltage	24 – 50 [V] DC
Power Consumption	RX 90 W / Full Power 350 W
Max Ambient Temperature	-40°C to 60°C

MICRO HUB SPECS

CHANNEL SPECS

Standard	DVB-S2X, DVB-S2, ACM
Bit Rate	32Kbps – 500Mbps
Roll Off	5% - 50%
Modulation	BPSK, 8PSK, 8APSK-L, 16APSK, 16APSK-L, 32APSK, 32APSK-L
Coding	LDPC & BCH
FEC Rates	QPSK: 1/4,1/3,1/2, 2/3, 3/4, 5/6
	8PSK: 3/5, 2/3, 3/4, 5/6
	8APSK-L: 5/9; 26/45
	16APSK: 2/3, 3/4, 4/5, 5/6
	16APSK-L: 5/9; 8/15; 1/2; 3/5; 2/3
	32APSK: 3/4, 4/5, 5/6, 8/9, 9/10; 32/45; 11/15; 7/9;
	32APSK-L: 2/3
FEC Frame	16200; 64800

INTERFACES

Data	2 Eth. ports: 10/100/1000
Management	RS-232, RJ-45 (GUI), (Integr. w/ Terminal)
RF (RX)	L-band: 950 – 2100 MHz
RF (TX)	L-band: 950 – 2400 MHz
Max Output:	0 dBm
Gain Control	60 dB in 0.5 dB steps
Freq. Resolution	1 Hz

BR024

 # US 9,016,631 B2
FAA STC # ST02495LA and DoD CERTIFIED.

PATENTED

Solution Includes

- **Hatch w/ radome and integrated Micro Slingblade Ka antenna**
- **6U composite transit case w/ components, removable rack**
- **PacStar router w/ KG-250 Encrypter mount**
- **Synqor power supply and Micro Hub**
- **Accessory kit w/ laptop and all necessary cables**

R4 Solution Part Number

0021A-10-S1-PS2-00-GE2-000-000-624-00

R4 INTEGRATION

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