

# Payload Plan

# EOSS-310 Heavy

0700 MDT, 18 Apr 2021

## Rev D

Deer Trail, CO

(dropped Eaton MS Payload)

3000 gm  
latex balloon

4 ft 500# woven nylon

Wireless Release Charlie 240g (0.53 #)

12 ft Rocketman parachute 12A  
520 g (1.15 #)

KCØD-3 Remote Release / DF  
144.905 MHz 420 g (0.93 #)

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-3 / EOSS-310

10 ft 500# woven nylon

CU ADS-B  
510 g (actual) (1.12 #)

ICAO Code: A59EE9  
N-Number: N461SG

10 ft 500# woven nylon

**6 Gateway to Space BalloonSats**  
spaced @ 6' on 500# woven nylon  
Total wt : 4,646 g (final) (10.24 #)

10 ft 500# woven nylon

AEØSS-12 Lite APRS/Digi EOSSA  
Time slotted at 0:24 and 0:54  
144.340 MHz 930 g (2.05 #)

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
AEØSS-12 / EOSS-310

Item	Weight pounds	Weight kg
Student Experiments	10.24	4.646
EOSS Payloads	4.63	2.100
Parachute	1.15	0.520
Neck load	16.02	7.266
Balloon	6.61	3.000
Gross Weight	22.63	10.266
Gross Lift Factor	1.21	1.21
Neck Lift	20.77	9.420
H2 fill; scf (approx)	370	
Burst Altitude; kft km	107.9	32.9

1



30 ft

2



<sup>1</sup> [www.aprs.fi/kc0d-3](http://www.aprs.fi/kc0d-3) (that is a zero)

<sup>2</sup> [www.aprs.fi/ae0ss-12](http://www.aprs.fi/ae0ss-12) (that is a zero)